

FOLIO



Universiade '83 the Fourth Largest Event in Sports History

More countries have entered the 1983 World University Games than any previous sports event held in Canada or the United States.

Universiade '83 President Ed Zemrau recently announced the addition of eight countries, raising the total participation to ninety-four. This makes the Games the fourth largest world sports event in history behind the 1972 Munich Olympics which attracted 122 countries, the 1968 Mexico Olympics which drew entries from 112 nations, and the 1979 Mexico Universiade's entry roll of 107 countries. (The 1976 Montreal Olympics initially planned on 114 countries but twenty-six withdrew a week before the opening ceremonies because of the apartheid issue).

The addition of Sri Lanka, Denmark, Trinidad, Cook Islands, Montserrat, Benin, Nepal, and Papua-New Guinea confirmed the Edmonton Games as the second largest Universiade ever staged, behind the 1979 edition at Mexico City.

FOLIO

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page two, Folia, 23 June 1983

"The additional countries pose problems in terms of accommodation at the Athletes Village but the sheer numbers verify the world interest in the University Games," Mr. Zemrau said. "The response to our invitation to take part in both the sports and cultural programs has been extremely gratifying to the organizing committee. It's obvious to us the world sports community is looking ahead to the 1984 Olympics at Los Angeles—to see in advance the quality of the team from the People's Republic of China which will compete at the Olympics for the first time since 1932.

"China has entered 270 athletes and officials in our Games—the largest team they've ever sent to any event outside

the People's Republic. For Canada, this will be a first. The Chinese have never competed on such a scale in our country, or the United States for that matter. Along with China, there will be twenty-two other countries including eighteen of the African nations which boycotted the Montreal Olympics, which will compete in

our country for the first time."

Other countries sending large delegations (athletes, officials and mission staff) include the United States (357), the Soviet Union (320), Canada (319), Italy (235), Japan (198), Cuba (161), Germany (153), France (119), Brazil (113), and Korea (110).□

Message from Ross Macnab Vice-President (University)

It is with a great deal of pride that The University of Alberta welcomes the world from 1 to 11 July 1983. The World University Games, or

Universiade '83, will bring an estimated 6,000 athletes and cultural performers to Edmonton. In addition, a major academic conference will form an integral part of the Games.

In Europe, the World University Games have long been popular and prestigious, and in North America recognition is growing rapidly. The Games were held on this continent for the first time in Mexico City in 1979, and when they are held in Edmonton, it will mark a first for Canada and the United States.

The level of competition in the World University Games is exceedingly high. In comparing winning performances in track and field at the 1978 Commonwealth Games and the 1979 World University Games, one notes that superior performances were achieved in ten of the twelve women's events, and twelve of the nineteen men's events at the World University Games. On many occasions, World University Games' performances exceed those of Olympic competition.

Please be sure to take advantage of the exciting times in the next two weeks, both from the standpoint of athletic competition as well as the major cultural events which will take place.□

Message from President Horowitz

It is indeed a pleasure to welcome athletes, officials, cultural participants and visitors to Universiade '83. The University of Alberta looks forward to hosting visitors from around the world and the resulting exchange of ideas which will be of mutual benefit to all concerned.

The location of the athletes' village and the venues for several of the sports of Universiade '83 on the University campus will create an environment of interaction between the visitors to Edmonton and the University. This will be enhanced by the University's involvement in the cultural component of the Games, Kalei-

doscope '83 and the several academic workshops and conferences which are being held at the University in conjunction with the Games.

The University of Alberta continues to be a leader in the development and enhancement of University sport at both the national and international levels. This involvement is supported with pride by students and faculty at the University and by the citizens of Edmonton and the Province of Alberta.

Please accept my best wishes and assurance that The University of Alberta eagerly awaits the opportunity to "Welcome the World."□

The Cover

"...and I'll take two Wugies, a pennant, the recipe book, some t-shirts and..." Ross Macnab, World University Games Vice-President (University), appears ready for anything as he selects his Universiade '83 memorabilia from the vast array available at the University Bookstore.

The Games on Campus

Basketball/Universiade Pavilion

Date	Time	Event
1 July	9 a.m. 7 p.m.	Preliminary round—men and women
2 July	9 a.m. 2 p.m. 7 p.m.	Preliminary round—men and women
3 July	9 a.m. 2 p.m. 7 p.m.	Preliminary round—men and women
4 July	9 a.m. 2 p.m. 7 p.m.	Preliminary round—women Qualifying round—men
5 July	9 a.m. 2 p.m. 7 p.m.	Qualifying round—men and women
6 July	9 a.m. 2 p.m. 7 p.m.	Qualifying round—men and women
7 July	9 a.m. 2 p.m. 7 p.m.	Qualifying round—women
8 July	9 a.m. 2 p.m. 7 p.m.	Semi-finals—men
9 July	2 p.m. 7 p.m.	Final—men Medals final—men
10 July	9 a.m. 2 p.m. 7 p.m.	Final—women Final—women Medals final—women

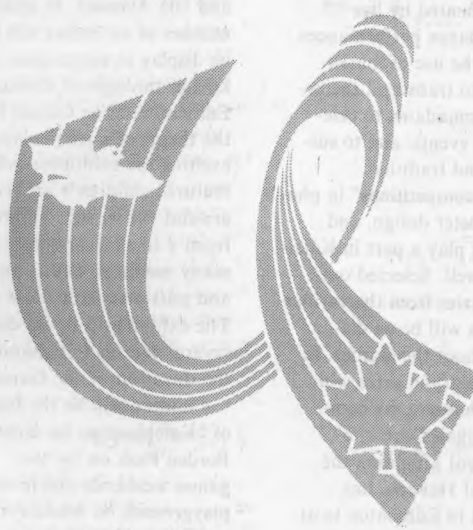
Tennis/Michener Park

Date	Time	Event
4 July	9 a.m.	Tournament play—men and women
5 July	9 a.m.	Tournament play—men and women
6 July	9 a.m.	Tournament play—men and women
7 July	9 a.m.	Tournament play—men and women
8 July	11 a.m. to 10 p.m.	Tournament play and men's doubles semi-final
9 July	11 a.m. to 8 p.m.	Women's semi-finals and singles final, men's doubles final, women's singles bronze, men's doubles bronze
10 July	11 a.m. to 8 p.m.	Finals—women's doubles, mixed doubles bronze, men's singles bronze, women's doubles bronze

Tickets available at Woodward's, Commonwealth Stadium,
Northlands Coliseum, and the West Edmonton Mall Box Office.

Volleyball/Ice Arena

Date	Time	Event
2 July	9 a.m. 1:30 p.m. 6:30 p.m.	Preliminary round—men and women
3 July	9 a.m. 1:30 p.m. 6:30 p.m.	Preliminary round—men and women
4 July	9 a.m. 1:30 p.m. 6:30 p.m.	Preliminary round—men and women
5 July	9 a.m. 1:30 p.m. 6:30 p.m.	Qualifying round—men and women
6 July	9 a.m. 1:30 p.m. 6:30 p.m.	Qualifying round—men and women
7 July	9 a.m. 1:30 p.m. 6:30 p.m.	Qualifying round—men and women
8 July	9 a.m. 1:30 p.m. 6:30 p.m.	Semi-finals—men and women
9 July	9 a.m. 1:30 p.m. 6:30 p.m.	Finals—men and women Medals final—women
10 July	9 a.m. 1:30 p.m.	Final—men Medals final—men



Kaleidoscope Calendar

Creative talent from around the world is gathering in Edmonton to take part in Kaleidoscope '83, the cultural component of the 1983 World University Games. Artists, craftsmen, and performers from every corner of the globe will take part in the kaleidoscope of festivities that will fill every corner of the city.

The "International Performing Folk Arts Festival" will feature performing troupes from more than twenty countries who will entertain throughout the city.

A series of "Concerts in the Park" will be held in Sir Winston Churchill Square each evening from 2 to 10 July. In addition, international and Edmonton artists will perform throughout the city.

The new Edmonton Convention Centre will be the scene for "Crafts of the World," an exciting exhibit featuring more than 1,000 works from more than twenty countries. From 29 June through 20 July, the exhibit will present some of the best crafts from around the world.

Until 31 July, Ring House Gallery will be home to "Masquerade," an exhibition of contemporary and traditional masks, augmented by live drama and dance performances illustrating the use of masks by cultures to transcend the everyday and mundane, to celebrate public events, and to sustain ritual and tradition.

"Student competitions" in photography, poster design, and film making play a part in Kaleidoscope as well. Selected outstanding entries from the various competitions will be on display throughout the Games. In addition, the grand prize winner in the photography competition, Abigail Garcia, a Cuban student attending the University of Havana, has been invited to Edmonton to attend the Games. Winning entries from student filmmakers will be shown during the Ka-

leidoscope "Film Festival" which takes place in Zeidler Hall, Citadel Theatre, from 5 to 9 July.

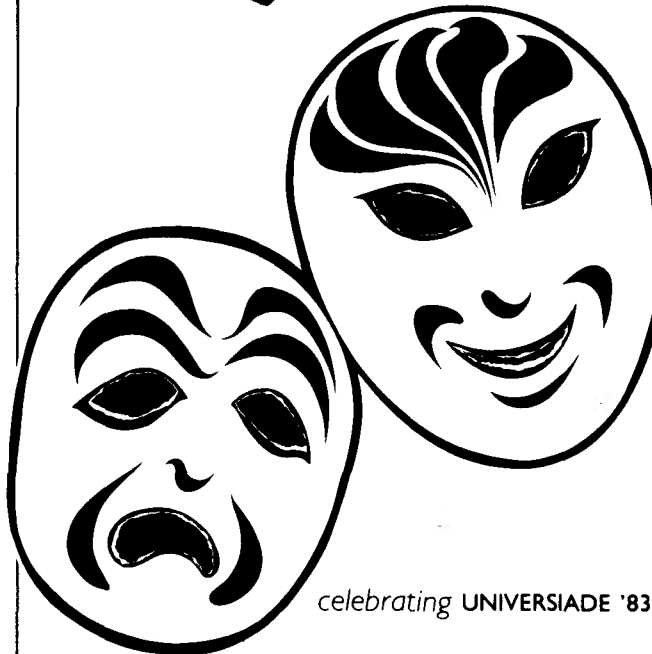
The diversity and impact of Alberta's multicultural mosaic will be featured in a number of programs including a "Multi Media Project," a day-long "Sports and Cultural Festival," a "Fashion Show" in the Edmonton Convention Centre on 10 July, and various "Performing Events" by outstanding ethno-cultural troupes in Edmonton.

The University will be home to a special "Native Project" which will see the Quad turned into a native village with four Plains Indian teepees and a Metis log cabin. Artisans will demonstrate the traditional crafts of beadwork, hidework, and weaving and historical artifacts from the University's Edwards Collection will be on exhibit in the Heritage Lounge of Athabasca Hall from 4 to 15 July.

"Glass on Glass" will showcase the work of more than forty of Alberta's best stained glass artists. From 27 June to 15 July, their work will be on display in the main floor lobby of the Canadian Commercial Bank Building (101 Street and 103 Avenue). In addition, a number of art shows will be on display in mezzanines and lobbies throughout downtown Edmonton. "The Games I See" is the theme of a particularly exciting art exhibition which features children's art from around the world. Children from 4 to 17 years have used many media to depict games and pastimes from their culture. The exhibit will be on display in several centres in Edmonton for the duration of the Games.

Children will be the focus of "Kaleidoscope for Kids" in Borden Park on the two games weekends and in city playgrounds on weekdays. A variety of special events will be available for children of all ages.

MASQUERADE



celebrating UNIVERSIADE '83

RING HOUSE GALLERY

JUNE 16 - JULY 31

University of Alberta
Edmonton
432-5834

The generous financial assistance of the Alma Mater Fund and the University/Community Special Projects Fund is gratefully acknowledged

Just as the city will be a kaleidoscope of culture, so too will the University campus (see *Folio*, 26 May). The next few weeks will see the cam-

pus become a showcase for students in music, art, and dance who will join with Universiade '83 and Kaleidoscope '83 to "Welcome the World." □

Masquerade Banners Stolen

The grinch that stole Christmas has made his way to campus...and his actions have disappointed and angered members of the University community. Four of the ten banners made to celebrate Masquerade were stolen within a day of being installed on light standards surrounding Ring House Gallery, home of the special exhibition of contemporary and traditional masks.

Helen Collinson, Director of University Collections, has made a plea to the perpetrators

to return the banners. "A number of students worked long and hard making these banners," she explains. "Masquerade is a feature of Kaleidoscope '83 and I do not understand how people can be so destructive about something that is such a positive, celebratory event. It's pretty disappointing."

Anyone having information about the disappearance of the banners is asked to contact the Ring House Gallery, telephone 432-5834. □

CBC to Set Own Record at Universiade

There *may* be numerous athletic records broken during the World University Games, but there *will* be a record set off the field. CBC, the host broadcaster for the Games, will telecast a record twenty-six hours of national coverage, and an additional minimum of twelve hours locally, during the eleven-day sport spectacular. This is the most number of hours ever broadcast in Universiade's sixty-year history.

CBC will assemble 185 staff in Edmonton in order to provide domestic coverage and host service to foreign broadcasters. The number includes

people from radio and television departments in both its English and French networks. Host for the Games' telecasts will be Ernie Afaganis, who also hosted the 1978 Commonwealth Games.

Twenty-five of the 185 individuals will man tractor-trailer mobile television units at Commonwealth Stadium, Northlands Coliseum, the Aquatic Centre, and the Velodrome/University of Alberta. The CBC French network will telecast twenty-four hours of coverage while French radio will broadcast fifteen hours. English radio's fifty hours of broad-

casting will be supplemented by CBC Alberta's additional fifteen hours.

As host broadcaster, CBC will be responsible for providing live coverage of the Games' opening and closing ceremonies to foreign broadcasters and a sixty-minute daily summary of highlights. CBC will also provide coverage of the finals in all ten events: Track and Field, Basketball, Volleyball, Gymnastics, Diving, Swimming, Water Polo, Cycling, Fencing and Tennis.

Although exact broadcast times of specific events were not available at press time, and

the radio network had not confirmed its schedule, the following is the national and local schedule provided by CBC television:

1 July, 2-4 p.m. (opening ceremonies)
2 and 3 July, 1-4 p.m.
4 July, 5-6 p.m., 7-8 p.m., 11:30 p.m.-12:30 a.m.
5, 6, 7, and 8 July, 5-6 p.m., 7-9 p.m. 11:30 p.m.-12:30 a.m.
9 July, 1-4 p.m., 8 p.m.-10 p.m.
10 July, noon-3 p.m., 3:30-5:30 p.m.
11 July, 5-6 p.m., 6:30-7:30 p.m., 8-10 p.m. (closing ceremonies), 11:30 p.m.-12:30 a.m. □



Opening Ceremonies of Gold Medal Quality

If everybody loves a parade, 60,000 Edmontonians and visitors should be infatuated with the opening ceremonies of Universiade '83. The Games are cause enough for celebration. Add the attendance of Prince Charles and Princess Diana and note that the day is Dominion Day and Princess Diana's birthday and the good times will be spontaneous and lasting.

On 1 July at 2 p.m., the "Welcome the World" fanfare will alert spectators to the fact that this is it—the World University Games are here.

Premier Lougheed, President Horowitz, Mayor Purves, and Alex Fallow, Chairman of the Board, Universiade '83 Edmonton Corporation, will convey greetings. The march-in of athletes from nearly 100 countries will be led by Romania, host of the most recent Universiade (1981). Canada, the current host, will enter the stadium last. In between, the order is Algeria to Zimbabwe. One athlete will take the Games oath on behalf of all.

At 3:08 p.m., Prince Charles, in the company of Primo Nebiolo, President of the Federation Internationale due Sport Universitaire; and Ed Zemrau, President, Universiade '83 Edmonton Corporation, will officially open the Games.

The Universiade torch will be carried into the Stadium at 3:16 p.m. Some 1,400 runners have carried the torch across Canada. Incidentally, the flame tower on top on the south end concourse will be transported to the University after the Games, a gift from the Sawridge Indian Band.

The ceremonies will be further enhanced by the talents of 6,500 performers. Twenty of the twenty-eight choirs on hand will be directed by Ron Stephens and Leonard Ratzlaff of the University. There will be a colorful placard display, nifty gyrations by 2,000 dancers, and



the antics of twelve inflatable animals, each one up to eighteen metres high. The inflatables will sit on a nylon map of Canada that will cover the foot-

ball field. The map was painted by cartography students at this University.

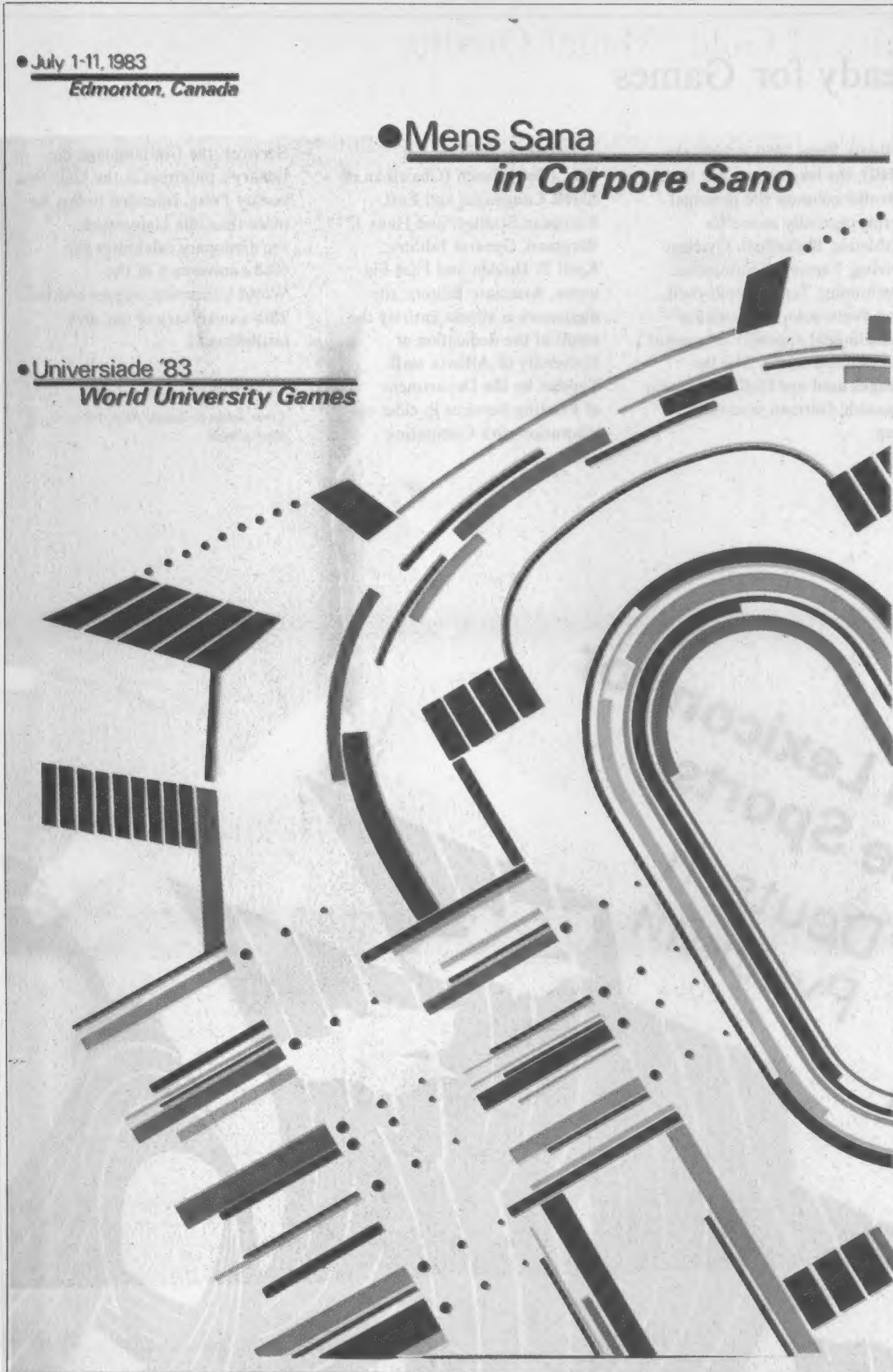
The opening ceremonies will last two hours. Tickets are

on sale at Commonwealth Stadium, Northlands Coliseum, all Woodward's stores, and the West Edmonton Mall Box Office. □

● July 1-11, 1983
Edmonton, Canada

● **Mens Sana**
in Corpore Sano

● **Universiade '83**
World University Games



Norman Grier's rendering of Commonwealth Stadium brought him a first prize in the Universiade '83 International Student Poster Competition. Mr. Grier, a student in the Department of Art and Design, shared top honors with Barbara Haskins of the University of Cincinnati. There were more than 350 entries.

Sports Lexicon Ready for Games

The first sports dictionary produced in five languages in North America, and the first *Multilingual Lexicon for Universiade Sports* ever, is only one of the major contributions that The University of Alberta has made toward the success of the impending World University Games.

Available this week in the University's Bookstore and in the offices of the University of

Alberta Press (450 Athabasca Hall), the lexicon sets out in parallel columns the principal terms currently in use for Athletics, Basketball, Cycling, Diving, Fencing, Gymnastics, Swimming, Tennis, Volleyball, and Waterpolo, along with a multilingual appendix of general phrases and terms. The languages used are English, French, Spanish, German, and Russian.

Under the guidance of R.L. (Bob) Busch (Chairman of Slavic Languages and East European Studies) and Hans J. Bergman, General Editors; Kyril T. Holden and Paul Figueroa, Associate Editors, the dictionary is almost entirely the result of the dedication of University of Alberta staff. Typeset by the Department of Printing Services in close collaboration with Computing

Services, the five-language dictionary's publisher is the University Press. Intended to last for more than one Universiade, the dictionary celebrates the 60th anniversary of the World University Games and the 75th anniversary of our own institution. □

Cover design by Joanne Poon, University of Alberta Press.

**Multilingual Lexicon for
Universiade Sports**
English Deutsch
Français Русский
Español



U of A Athletes to Compete

The University has a vast number of people taking part in the World University Games and among them are athletes who have proved themselves and will now represent our country on National Teams.

Tracy Mills has been selected

to the Women's Volleyball team and Toni Kordic will play with the Women's Basketball team. Several students have been asked to swim for the National Team. They are Maureen New, Megan Watson, Jeff Riddle and Peter Szmidt.



Bringing Universiade Home

• 18 January 1980 — The Board of Directors of the Canadian Interuniversity Athletic Union approves a bid from The University of Alberta and the City of Edmonton to host the 1983 World University

Games.

• 13 September 1980 — Meetings in Rome, the steering committee of the Federation Internationale due Sport Universitaire awards the Games to Edmonton. • January 1981 —

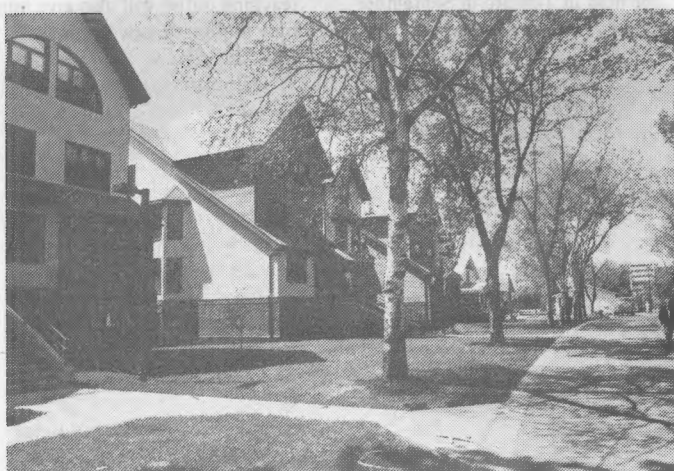
The Board of Governors okays the design and construction of a 15,300 square metre University fieldhouse. • 14 December 1982 — Garneau Student Housing Complex opens. • 6 May 1983 — Universiade Pavilion opens

• 16 June 1983 — Tennis Centre (nine courts) at Michener Park opens • 1 July 1983 — 2 p.m. Opening Ceremonies at Commonwealth Stadium.

Growth Figures for World University Games 1967 -1981

	Host	Countries	Men	Women	Total	Officials	Total
1967	Tokyo	34	698	240	938	334	1272
1970	Turin	58	1542	542	2084	724	2808
1973	Moscow	70	1940	778	2718	916	3634
1977	Sofia	78	2071	868	2939	1452	4391
1979	Mexico	94	2262	712	2974	1407	4381
1981	Bucharest	86	2071	841	2912	1457	4369
1983	Edmonton*	96	2190	850	3040	1460	4500

*Approximate



Garneau Student Housing—home to the Canadian and American teams. Other athletes villages are Lister Hall and Pembina Hall. The U of A track (athletics), the West Gym (volleyball), and the weight training room in the Physical Education Building will be used for training purposes. The on-campus competition venues are the Universiade Pavilion, the Main Gym, and the Education Gym (basketball), the Tennis Centre at Michener Park, and the U of A Arena (volleyball).

page ten, Folio, 23 June 1983

Have Your (Anniversary) Cake... ...And Eat it Too!

In a *grande finale* appropriate to its year-long celebrations, The University of Alberta will end its 75th anniversary year in style.

On Thursday, 30 June, His Royal Highness Prince Charles will be awarded an honorary degree at a Special Convocation to be held in his honor. Following the ceremony, President Horowitz; John Schlosser, Chairman of the Board of Governors; Peter Savaryn, Chancellor; and Jean Forest, Honorary Chair of the 75th Anniversary Committee, will cut into a huge anniversary cake guaranteed to serve 4,000. The cake will be the highlight of the anniversary party

which will take place on the lawn of the Northern Alberta Jubilee Auditorium directly following the Special Convocation.

The anniversary celebration is open to all members of the University community. □

Attention Readers and Contributors

Due to the 1 July holiday, all material for the next issue of *Folio* (7 July) must be received by the Office of Community Relations by 29 June at 3 p.m. □

Canadian Playwriting Centre Announces Awards Program

The Canadian Playwriting Centre, housed within the Department of Drama, will be conducting a new program of awards to further development of plays by Canadian playwrights. The awards will be in the form of direct cash grants to those theatres who demonstrate the most innovative use of their resources in the production of new or nearly new Canadian plays. The awards will be shared with the playwrights involved. Any Canadian playwright will be eligible, but the play or plays must be developed and/or produced by a professional theatre company in Alberta during the 1983-84 season. The share of the monies going to the theatre companies must be earmarked for new play development. It is hoped that a precedent of continuing commitment to new Canadian plays will be established, and that this will be an

incentive to all provincial theatre companies to expand their new-play policy.

To further this end, Alberta Culture has made a grant to the Canadian Playwriting Centre. The money could be shared by a number of theatre companies, depending upon their programs, or it conceivably could go to one company with an outstanding, innovative approach to new play development.

To be eligible for a grant, the application must come from the theatre company involved. Applications will not be accepted from individual playwrights. The deadline for applications is 1 August 1983. The grant or grants will be announced by 1 October 1983. Applications may be sent to Douglas Riske at Alberta Theatre Projects in Calgary or to Ben Tarver, Department of

Drama, The University of Alberta.

The current board of directors of the Canadian Playwriting Centre consists of actor Tom Peacocke, playwright Ben Tarver, and artistic director Douglas Riske. They express their thanks to the Clifford E. Lee Foundation for its past support of the Centre and to Al-

berta Culture for its continued support. Canada Council has also been a major supporter of the Centre in the past. The future of the Centre and the role of the funding organizations in this future have not yet been determined. Those wishing further information may contact one of the board members. □

McCalla Professorship for Landslide Expert

An adjunct professor in the Departments of Mineral Engineering and Geology will set aside his teaching duties in September in order that he may continue studies into the slope hazards in the Rockies. This is a result of being awarded a 1983-84 McCalla Professorship.

In addition to his study of landslides, David Cruden will prepare for a major symposium, the 4th International Symposium on Landslides, to be held in Toronto in September 1984. The symposium, to which Dr. Cruden has been invited to present a lecture, will, in his words, provide "a superb opportunity to present the major achievements of the Geotechnical Group in the Department of Civil Engineering to an audience of international experts." Dr. Cruden adds that not only his work but that of Drs. Eisenstein, Kaiser, Morgenstern and Thomson and numerous doctoral and master's students could be highlighted.

Dr. Cruden is also intent on "attacking" a backlog of unpublished work on landslides in the Rockies. He will publish a number of papers and plans to finish an outline of a monograph on slope hazards in the Rockies. He emphasizes that this is a critical time for studies of the slope hazards in the region

because of the development of recreational facilities, oil and natural gas wells and processing plants, coal mines, water resources, and forestry operations. This development, he adds, has placed increased pressure on the region and exposed more people to hazards which are poorly documented and hardly understood.

Dr. Cruden explains that as well as providing a framework for future work in the Rockies, his release from teaching duties will also give him time to provide new teaching materials for courses in both Civil Engineering and Geology and for field excursions taken by the large graduate student body.

A graduate of Oxford University, Dr. Cruden also attended our University where he received a MSc in geology. He continued his studies at the Royal School of Mines at London University and obtained his doctorate in structural geology.

Prior to joining the full-time staff of The University of Alberta in 1970, Dr. Cruden was a member of the Geology Department at the University of Ottawa and before that was a NRC postdoctoral fellow at the Elliot Lake Laboratory, Mining Research Centre with the Federal Department of Energy, Mines and Resources. □

Summer Sports Program

This summer marks the 17th year for the University of Alberta's Department of Athletic Services' highly successful Summer Sports Program.

The program, which runs from 17 July to 2 September, will offer approximately 2,000 boys and girls between the ages of eight and eighteen a chance to improve their sports skills.

A total of fifteen different sports camps will be run during the seven-week program. The sports covered by these camps are: basketball, gymnastics, soccer, swimming, wrestling, track and field, football, ice hockey, field hockey, volleyball, and power and figure skating. Each camp runs for one week (Monday to Friday) at various times and venues depending on the particular camp.

Dan Syrotuik, Community Services Coordinator and Director of the Summer Sports Program, states that the purpose

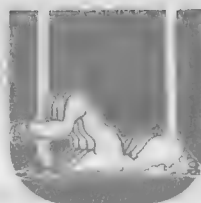
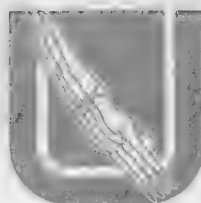
of the program is twofold.

"In addition to fostering sportsmanship and cooperation, each camp is designed to provide participants with the best available instruction in the fundamentals and basic techniques of their particular activity. We also want each camper to have fun and make new friends at our camps."

Each camp will have a qualified and knowledgeable staff of instructors. The instructors for the program include Bear and Panda coaches, Physical Education staff members, former and current members of the various Golden Bear and Panda Intercollegiate teams, as well as guest coaches who are nationally and internationally known.

People interested in obtaining further information may do so by calling 432-3534 or 432-3365 from 8:30 a.m. to noon and from 1 to 4:30 p.m. □

July 1983



June

1 2 3 4
5 6 7 8 9 10 11
12 13 14 15 16 17 18
19 20 21 22 23 24 25
26 27 28 29 30

August

1 2 3 4 5 6
7 8 9 10 11 12 13
14 15 16 17 18 19 20
21 22 23 24 25 26 27
28 29 30 31

September

1 2 3
4 5 6 7 8 9 10
11 12 13 14 15 16 17
18 19 20 21 22 23 24
25 26 27 28 29 30

sunday

3

10

17

24

31

monday

4

■ Six-week Summer Session begins

11

18

■ GFC
Executive

25

tuesday

5

12

19

26

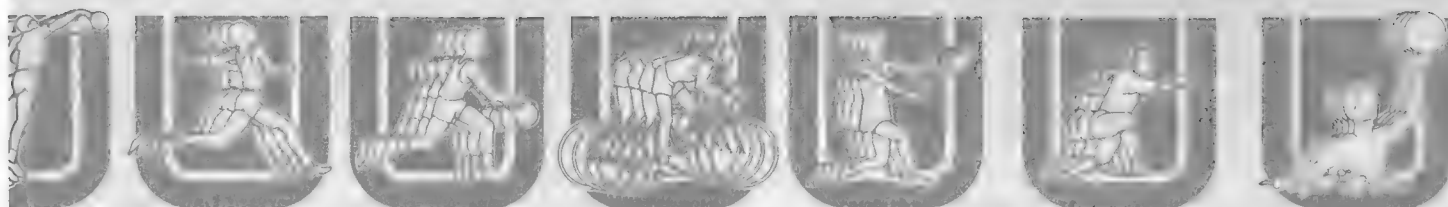
wednesday

6

13

20

27



thursday

friday

saturday

1

■ Dominion Day
University Buildings Closed
■ Until 11 July
Universiade '83

2

7

8

■ Board of Governors

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14

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16

21

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23

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29

30

Tickets Available

There are still a limited number of tickets available for selected semi-final and final events. For tickets and information, telephone 432-5593.

☐ Folio publication dates

Spring Convocation—Part I

The opening day of Convocation, 30 May, included the following Report to Convocation by President Horowitz.

Eminent Chancellor, Mr. Chairman of the Board, Distinguished Guests, Colleagues, Graduands and Friends of the University.

Whatever else a university is, Mr. Chancellor, it is primarily a community of people—undergraduate and graduate students, academic and support staff, alumni, lay members of the Board of Governors and of the Senate, and devoted administrative leaders. We are most fortunate in the high calibre of academics who are serving as Deans of our Faculties at the present time. Three of them will be retiring from their administrative positions at the end of this term: Dean Cameron of our Faculty of Medicine, Dean Worth of our Faculty of Education, and Dean Bowland of our Faculty of Agriculture and Forestry. While we shall miss their leadership in the Faculties and in the University at large, I am pleased that each will be remaining at the University and will be resuming teaching and research responsibilities on a full-time basis. I know that all join me in thanking them publicly for their valued service.

This academic year will be remembered as a very special one. Ever since last July we've been celebrating our 75th Anniversary. We have hosted several international symposia, conferences and meetings on topics as diverse as human evolution and international affairs, criminology and science and religion, and number theory and renaissance studies. For a while it seemed as if each day we had another concert or art exhibition or play or special convocation or banquet to celebrate our birthday.

1982-83 will be referred to as our 75th Anniversary Year and, I'm certain, that after July it will also be remembered as

the time when the University joined the City of Edmonton, of which we're an integral part, in hosting the world at the very best international games ever and in welcoming almost 100 countries to Universiade '83 and to its cultural component, Kaleidoscope.

The Ankle Express

On a personal note, this was the year when we had the First President's Walk. A week ago this past Friday, 1,200 people joined me in our unique recognition of National Physical Activity Week and the next day I actually made the front page of a local newspaper. Mind you, to get that recognition I had to wear a funny hat with the inscription, "I must hurry and catch up with the others, for I am the leader." I wonder, will this academic (and some would say equally funny) mortarboard hat result in front page newspaper coverage tomorrow?

And this was the year when we had designed our own flag and when we had added to our campus Universiade Pavilion that quiet, unassuming, somewhat dull facility across the street — already being referred to affectionately as the big cheese, as a ball of sunshine, as a yellow submarine, as the unmellow yellow fieldhouse, and in numerous other ways — some not too appropriate for a President to mention at a formal Convocation.

Unfortunately, many of you will have less pleasant reasons for remembering this year because it was during your period at University that the perceived health of our economy changed abruptly. For the University this has meant seriously inadequate funding for both the operation of the University and for capital maintenance and development. The financial difficulties coupled with dramatic increases in enrolment are presenting serious problems, some of which the

Vice-Presidents will be considering in their Convocation remarks later in the week.

I know that many of you who are graduating this afternoon have been affected personally by the economic downturn and by job prospects which do not seem as bright as they did when you entered University four years ago. Because of this new reality, and unlike other years when I have used my Convocation Report as an opportunity to speak to other academics, to governments, and to the larger community, I have decided this year to address you who have been students at this University so very recently and who are graduating this afternoon.

Congratulations

I want to congratulate each of you on your accomplishments. And if your experiences have been at all similar to mine, then there are others to share in the limelight because they, too, have contributed in important ways to your success—wives and husbands, parents and children, brothers and sisters, other relatives, and friends. I congratulate all of you and I wish those of you who are graduating every happiness and the fulfillment of your most pleasant dreams.

You better understand that no great change will take place just because you now have a university degree. Don't be disappointed when you realize tomorrow that you're little different from the way you were yesterday. After all, on Tuesday, as on all Tuesdays, I shall start my day at home by putting out the garbage. It's good that we are treated no differently by family and friends, for having degrees should not be confused with being educated. To be educated you do not necessarily have to have a university degree, but you have to have a passion for learning and a determination to use what you have gained for the good of others. There is a

gate at Harvard University which has inscribed on the outside "Enter to Grow in Wisdom." That is only half of the challenge because on the other side, which you see when leaving the campus, are the words: "Go forth to serve thy country and mankind."

This is not the best time to be graduating from university, especially if you are still looking for a job. During the last few years, the economic situation deteriorated rapidly in this country and around the world. Your work prospects may not appear to be promising, but you must appreciate that we on this platform and you who are graduating are among the more privileged members of society. Barely ten percent of your age group are at universities in this country. In no way do I minimize your personal sacrifice, your devotion and your effort when I invite you to recognize the debt we owe and the responsibility we have to the larger community. There is too much ignorance, too much poverty, too much sadness, too much injustice, and too much illness in the world and, also, in our country. Your completing an academic program and your receiving a bachelor's degree in agriculture, forestry, engineering, home economics or science should bring you personal joy, but these accomplishments must also motivate and inspire you to play a part in attempting to solve these social problems.

In the early 1970s I spent a few weeks in Tanzania in relation to a teacher education program sponsored by the Governments of Canada and Tanzania and housed in our Faculty of Education. The very first teachers' college that I visited had the following message from President Julius Nyerere on a wall in the front foyer of the main building: "Further education for a selected few must be education

for service to the many. There can be no other justification for taking the many to give education to only a few. Those who receive this...have a duty to repay the sacrifice which others have made. They are like the man who has been given all the food available in a starving village in order that he might have strength to bring supplies back from a distant place. If he takes this food and does not bring help to his brothers, he is a traitor. Similarly, if any young men or women who are given an education...adopt attitudes of superiority, or fail to use their knowledge to help the development of this country, then they are betraying our union." I was invited to Tanzania to teach my hosts; I returned to Canada having learned much more than I taught, especially about responsibility one for another. The difficulties in newly developing nations are our difficulties, and they deserve the attention of us all, but let us not lull ourselves into the belief that we in Canada are immune from similar ills. The drop in the value of our dollar to barely eighty American cents and the increase in the number of unemployed people to almost two million are chilling reminders of what I heard as a child about the Great Depression which the world was very much into when I was born in 1932. We should be very troubled that the incidence of poverty and unemployment is particularly high in the Atlantic Provinces, along the Gaspé Coast, in rural areas right across the land, and in Indian, Inuit, and Métis communities close to home. And even in Alberta, and in this city, the unemployment rate has doubled during the last year and has climbed to more than ten percent. No region in Canada or of the world is free from the present economic difficulties and the social disruption which results.

Don't Give Up

And so, as you leave this University, is there any reason for you to be optimistic? Of

course there is. Folk songs were to my generation what pop music is to yours. I'm reminded of a song of hope for the future which Pete Seeger made famous:

"I can see a new day.
A new day soon to be
When the storm clouds are all passed
And the sun shines on a world that is free."

You must never give up. Not ever. Some days will be cloudy and stormy, of course. But you take all of your days: the good ones and the ordinary ones and the downright awful ones. You take them one at a time, and, like the heroes in last year's Academy Awards film, "Chariots of Fire," and in this week's "Terry Fox Story," you struggle and you persevere, always with determination and with integrity, especially if your race happens to be an unpopular one.

Some time ago a colleague gave me a copy of a delightful new book, *The Maple Laugh Forever: An Anthology of Canadian Comic Poetry*. In it Robert Zend has a poem entitled "World's Shortest Pessimistic Poem."

"Hope?"

"Nope."

That's it—just "Hope?" "Nope." Well, I disagree with those sentiments. We must have hope, and so I have a reply. It's Horowitz's unpublished "*Canada's Shortest Optimistic Poem*" which I set up as a conversation between the McKenzie brothers of recent SCTV fame:

"Optimistic, EH?"

"Yea."

Perhaps I should be wearing a woolen toque, instead of this academic cap, and have a bottle of beer with me as a prop, but that's my message in two words plus the uniquely Canadian sound or grunt in between "Optimistic, EH?" "Yea."

During your stay here, the teachers and researchers have tried to help you become knowl-

edgeable and sensitive. Now you leave the relatively sheltered environment of this University for the classrooms and laboratories of the real world. You have written your examinations and within minutes you will be granted your degrees, but the important evaluation of your university experience must wait for five, ten, twenty-five, and forty years.

Scientific and social changes have been rapid and will be accelerated during your lifetime. And as society changes there will be great need for committed people who will guide these changes. I think it is appropriate for us all to be reminded that, to be valid, the changes must be rooted in a very old and a very honorable notion of service to others. More than 2,000 years ago a rabbinic scholar and teacher, Hillel, said, "If I am not for myself, then who will be for me? But if I am only for myself and not also for others, then what good am I?"

Remember that true professionalism depends more on the spirit of service than it does on the particular occupation

one follows. In so far as the perceived high status professions are conducted at a mercenary or selfish level, law and medicine and engineering and teaching are ethically no better than are the trades; and in so far as trades are honestly carried on by devoted, concerned and committed people, they tend to rise toward the professional level.

No doubt you will forget some of the specific lessons in animal science, mathematics, nutrition, and engineering—just as graduates before you have—but as you search for the personal happiness which is your right, always be guided by the principle of service, that is service to those whom you know and whom you love, and service as well to those in the wide community, who are less known, or entirely unknown, to you—all people who have made it possible for you to be graduating this afternoon.

I wish you good health; I wish you success in your further studies; I wish you fulfillment in your life's work; and I wish you much joy in your personal lives.□

Graduands Urged to Develop Continuing Concern for University

L.C. Leitch, Vice-President (Finance and Administration) gave the following Report to Convocation on 31 May.

Eminent Chancellor: You will note if you have consulted your program that I am the Chief Financial Officer of The University of Alberta—and I worry a lot. Over the years, I have found some relief by sharing my worries with others—the President, the other Vice-Presidents, the Deans, the Chairmen, the Board of Governors, and with my colleagues at other universities who have similar responsibilities. We meet on a

more or less regular basis, and for several years the theme has been essentially the same, although we might vary the wording: "Survival in a Hostile Environment," or "Retrenchment—The Challenge of the Eighties," or "The Pursuit of Excellence—Are We Losing the Race?," and so on.

The supreme catharsis for me comes once a year—at Convocation—when I can share

my worries with a captive audience in excess of 2,500 people at once—a marvelous release.

The trouble is that once the euphoria is over, and I come down from my emotional high, my worries return in full force. Once again, my associates and I must deal with the very real problems engendered by increasing demands on the University in the face of diminishing real resources. I won't go into detail—the Archives probably carry my last ten or eleven Convocation addresses—they're the documents with the tear stains on them—and you can find the particulars there.

In any event, I am persuaded that at least up until now, none of my audiences have shouldered any of my worries, except momentarily. Oh, one or two people might wonder fleetingly why post-secondary education is no longer a high priority with government, or been briefly dismayed by statistics on reduced library acquisitions, or excessively large classes, but then they forget the University.

I recognize, of course, that everyone has his or her own worries. Many of you who are graduating today don't have jobs, or have accepted positions in fields remote from your academic interests. But you will find jobs, and you will find your way into working environments that offer the kind of challenge that you're looking for because—despite some of the overcrowding that I referred to, despite the difficulty of finding the right periodical in the Library, and despite the professor that seemed to have trouble with the English language—you have received a first-class education. I am addressing a group of young people who in a few years' time will be in generally fulfilling careers providing them with incomes that will place them in the top fifteen percent of all wage-earners in Canada.

So my mission this afternoon is to plant not so much a worry, but a concern in your minds—a continuing concern for this place.

Let's review briefly how the University is funded. The provincial government provides about eighty-seven percent of our operating needs by way of an annual grant; tuition fees account for just over ten percent and the balance comes from a variety of other sources. For the past several years, the government grant has not kept pace with the inflationary forces operating on the universities. This year, for example, the grant went up by 5.1 percent; considerably below inflation. Certainly we recognize that this is 1983, and in response to a dramatic decline in provincial revenues, we will have to take our lumps along with the private and the rest of the public sector. But it is worth noting that operating expenditures for all government departments will increase by 14.7 percent.

This simply reinforces the comment I made earlier that this government (and it is not alone among provincial governments) is not placing the same high priority on its universities that it did in the sixties. We are told that this reflects the wishes of the electorate. Naturally we will continue to fight this battle whenever and wherever we can—and you should feel perfectly free to join us if you believe that government should once again re-order its priorities.

The government has made no secret of its desire to shift some of the burden of funding the universities to the private sector. It has not only stated this objective publicly, but to its credit, provided a real incentive through the establishment in May 1980 of the 1980s Advanced Education Endowment Fund—\$80 million in matching grants to Alberta public post-secondary institutions. In his letter to the Chairman of the Board enclosing his statement to the legislature, the then Minister, James D. Horsman, said: "I am confident that the new Fund will accommodate the private sector's offers of support and, at the same time, stimulate further public involvement in the devel-

opment of the post-secondary system in Alberta."

The Message From Government

Although this province is alone in providing matching grants, virtually every provincial government conveyed a similar message to its universities, namely, "Get Out There and Dig." The problem for most post-secondary institutions in Canada, however, is that there is not the tradition of giving that is so evident in other parts of the world. Although the corporations and foundations include universities on their lists of eligible beneficiaries—individuals, and here I include alumni, generally speaking in this country don't contribute in any significant way to the universities. The prevalent attitude is that government has responsibility for the advanced education systems, and it's up to government to ensure that the institutions are properly funded.

Despite this rather barren environment, within the last three years some forty Canadian universities were either engaged in or embarking on fund raising campaigns with a total objective of over \$300 million. And some have been very successful. Toronto collected over \$35 million, and Western Ontario, Queen's, and McGill, for example, also exceeded their targets. With exquisite timing, Alberta launched its campaign coincident with the downturn in economic activity. We are in the process of canvassing the alumni, the staff, foundations and certain special names, and this summer we will be approaching the corporate sector. The staff has responded extremely well, but the alumni campaign is lagging—a total of \$305,000 having been contributed or pledged thus far. In fairness I should tell you that the annual Alma Mater Fund canvass yielded an additional \$170,000 last year. But these are modest amounts when it is recognized that there are over 91,000 Alberta alumni out there somewhere—a figure that

will be significantly augmented this week. Don't misunderstand me, the monies we receive from our alumni are very welcome, and put to extremely good use—but there are many more needs that must be met.

The total amount raised in both campaigns works out to some \$5 per graduate. The average contribution is, of course, higher if we include only the number who participated—some 3,300 alumni, or less than four percent of the total. This is not good enough. If this University is to achieve its goals, it must attract more funding on an on-going basis from the private sector—and particularly its graduates.

In the United States, which has a different tradition, it is estimated that twenty percent of alumni contribute to annual solicitations by colleges and universities. Total voluntary support for higher education in 1981-82 covered 6.4 percent of expenditures—close to \$5 billion dollars. Of course, everyone always points to Harvard, which is in a class by itself—but as a matter of interest, it received over \$180 million of voluntary support in 1981-82 alone.

We can do a lot better, and the primary reason that we have not attracted significant and consistent support from the private sector—and our graduates in particular—is because we haven't worked at it. We haven't made any real effort to earn and retain your continued interest in the University—but we're committed to a much more positive approach from now on.

A question that you're bound to ask yourselves is why you should support the University after graduation.

Let me say this; in my view, you don't owe us anything. When you started with us four or five years ago, we entered into a contract—in return for your tuition fees and your undertaking to abide by certain of our regulations, we undertook to provide you with an education. Today we are recognizing

formally the successful conclusion of that contractual arrangement. So you don't owe the University anything, in either a legal or moral sense.

Bargain Realized

But I can say this; you got a real bargain! You actually paid approximately ten percent of the cost of your education here—your fees were among the lowest in Canada. Certainly society is going to enjoy the benefits of an educated work force—but much of the benefit will accrue to you as individuals. In the main, you will find job satisfaction, and enjoy a higher standard of living than those of your contemporaries who did

not attend university. Again, we're not crying about the deal we made, but perhaps this is the perspective that you might bring to the decision that you will be called upon to make when you are approached in the future to support your University.

For our part, we will make every effort to convince you that The University of Alberta is worthy of your continued support. We will keep in touch with you, in a number of ways, most obviously through the alumni publication, *New Trail*. It is our intention to ensure that over time, more and more reasons will be provided for you to come to the campus. We already do a great deal by

way of continuing and further education—but we can and will expand our cultural offerings, and provide opportunities for the exchange of ideas through symposia and panel discussions. Perhaps we will finally be able to convince you that the Golden Bear teams can be as exciting to watch as the Eskimos or the Oilers—and again, at bargain prices. It is probable that many of you, as your careers unfold, will be approached by members of our staff looking for placements for our co-operative education students.

I don't really expect you to share our worries—we'll resolve them one way or another—

but be concerned about your University. Obviously your concern can be reflected in many ways, not just financially, but politically, or by serving on Senate or a Faculty Advisory Committee. I suppose we hope that one of you might turn out to be another Edward Mallinckrodt, Jr.—not a name that has become a household word, perhaps, but he recently left \$77 million to Harvard and \$38 million to Washington University.

So don't leave here resolved to come back on your 25th, never to be seen or heard from until then. Keep in touch. *Au revoir.* □ *

Lectureships Gift from Research Council

Agriculture, engineering, science and how they relate to society, are the general themes of three public lectureships to be sponsored annually for five years by the Alberta Research Council (ARC). The lectureships are a gift from the ARC in recognition of the University's 75th Anniversary. Presentation of the gift was made by ARC President Gilles Cloutier, to President Myer Horowitz, at a special ceremony Monday, 20 June.

The lectureships, in the amount of \$75,000, will bring internationally renowned scientists to Edmonton each year. Each visitor will give at least one public lecture and be available for special seminars, consultations with University staff and students, and with ARC staff.

Potential subjects for discussion include the applications of science and engineering, major scientific issues facing society, and new interdisciplinary subject areas that appear to have important significance for future developments in science and society.

The lectureships will be named after three individuals who had, and in the case of one (Dr. Robert Hardy), who

continues to have, a close association with both the University and the Council: the Nathaniel H. Grace 75th Anniversary Lectureship in Agriculture; the Robert M. Hardy 75th Anniversary Lectureship in Engineering; and the John A. Allan 75th Anniversary Lectureship in Science.

Dr. N.H. Grace was the first full-time Director of the ARC (then called the Research Council of Alberta, from 1951 to 1961). He came to the ARC from the Division of Applied Biology at the National Research Council. Dr. Grace was interested in agricultural problems and promoted new initiatives in soil surveys, groundwater studies and hail suppression. It was during Dr. Grace's tenure that the Research Council moved from the University to its new building on 87th Avenue.

Dr. Robert Hardy was a Professor of Civil Engineering and Dean of the Engineering Faculty. While Dean, he developed and supported the joint research program in highways engineering that was carried out by the Council within the Civil Engineering Department. He was a member of the Technical Advisory Com-

mittee of the Council from 1946 to 1959 and a member of the Board of Directors from 1959 to 1983. Dr. John Allan was a Professor of Geology at this University who participated in the committees that led to the establishment of the Scientific and Industrial Research Council of Alberta in 1921. From 1921 until 1946, he held the dual position of Professor of Geology and Director of the Geological Survey Division of the ARC. He continued his association with the Research Council until his retirement in 1949. During this period he carried out extensive geological surveys of Alberta and in 1925 produced a comprehensive geological map of the province.

Dr. Cloutier said of the gift, "Dr. Henry Marshall Tory, The University of Alberta's first President, was a driving force behind the founding of the Research Council over sixty years ago, and we have enjoyed a close working relationship with the University in a variety of projects ever since. With this gift, we hope to reaffirm our wish to work with Alberta universities and hope it will make a worthy contribution to this community."

In responding, Dr. Horowitz commented, "We are very grateful to the Alberta Research Council for the very imaginative lectureships which are being established in agriculture, engineering and science. This gift for our 75th Anniversary is particularly meaningful because of the close relationship which has existed between the Research Council and this University, dating back to the establishment of the ARC." □

Trace Amines and the Neurosciences

Trace Amines and the Neurosciences, a satellite meeting of the 9th Meeting of the International Society of Neurochemistry, will be held on campus 19 to 21 July. The meeting will deal with basic and clinical studies on the 'trace' amines 2-phenylethylamine, phenylethanolamine, the tyramines, the octopamines and tryptamine.

Twenty-one guest speakers will give lectures on the following aspects of trace amines: methodological aspects of biochemical analysis, local-

ization and distribution, neuropharmacology, behavioral studies, and clinical studies. In addition, there will be thirty-five free communications in the form of posters.

Participants will come from Austria, Australia, Canada, the German Federal Republic, India, Japan, Romania, Spain, Switzerland, the United States, and the United Kingdom.

The meeting has been organized by Drs. Sandler (London, UK), Boulton (Saska-

toon), and Baker and Dewhurst (University of Alberta), and considerable financial support has been received from the Alberta Heritage Foundation for Medical Research whose President, Dr. Lionel McLeod, will open the proceedings.

Lectures and poster sessions will be presented in 2-115 Education North. For further details, contact Dr. Glen Baker, Department of Psychiatry, Clinical Sciences Building, telephone 432-6591. □

Computer Camps to Emphasize Practical Application

A need to turn computer users into computer doers has prompted the Department of Electrical Engineering to offer three separate computer camps this summer.

Two of the camps, to be held for a total of six days over two consecutive weekends, will allow a registration of only twelve senior high school students, affording maximum opportunity for personal instruction and providing each student with the use of her/his own computer. The other camp will be held specifically for teachers.

In addition to instructing students in computer programming, the camps will show how microprocessors can be used to monitor and control the environment. Actual demonstrations and hands-on work will be offered. Students will be presented with problems which they will solve through use of the computers. Participants will be asked to solve such problems as traffic light coordination and water level adjustment in reservoirs.

No previous knowledge of microprocessors or microcomputers is required and the camps will include eighteen hours of lectures and eighteen hours of hands-on training. A complete set of notes will be provided to all students and a certificate of attendance will be awarded.

According to one of the instructors, Demetrius Zissos, a visiting professor in the Electrical Engineering Department, society needs this type of training in order to keep up with the rapidly changing technology. Professor Zissos emphasizes that the camps will place importance on the practical applications of the computer. "Certainly students will be taught how to program a computer but, more importantly, how to use this programming knowledge and apply it to solving every day problems such as how a computer can be used to control temperatures in a house." He adds that the course will teach students to be aware of the potential of computers.

The other instructor for the computer camps is Dan Wilson, a third-year Computer Engineering student.

The fee for a computer camp is \$180 and cheques should be made payable to the Department of Electrical Engineering.

Dates for the first camp are 8, 9, 10, 15, 16, and 17 July; the second camp (specifically for teachers) will run 29, 30, 31 July and 5, 6, and 7 August. The third camp takes place 19, 20, 21, 26, 27, and 28 August. On Fridays, the sessions will run from 6 to 9 p.m. and on Saturdays and Sundays from 8:30 a.m. to 5 p.m. □



Peter Lougheed, Premier of Alberta, takes to the terminal at the opening of CAD/CAM, the University's recently acquired computer-aided design/computer-aided manufacturing system. The "state of the art" installation was donated to the University by Bechtel Canada Ltd. and Computervision Canada Inc. A matching grant from the provincial government (\$1.3 million) made possible the purchase of the software necessary to operate the system. Several hundred representatives of Alberta industry and the University community attended the opening ceremonies in SUB Theatre. The focus of the afternoon was the importance of collaboration between the government, industry and the University community. Peter Jackson, Chairman of the Board of the Alberta Micro-electronic Centre, summed up the feelings of the platform party in stating that the acquisition of CAD/CAM "fit another piece of Alberta's high-technology mosaic into place."

Personality Test for Mentally Retarded to be Developed

It is well known that in predicting the work performance of retarded adolescents and adults, personality, including temperament, plays a more important role than intelligence. What could be good measures of personality? And what kind of personalities should we measure?

A grant of \$33,000 was recently awarded to J.P. Das, Centre for the Study of Mental Retardation, by Alberta Mental Health to develop a suitable measure of personality for mentally retarded, a measure that would not require reading or making elaborate answers. Professor Das, with the assistance of Nahid Hooshyar and Deirdre Murphy of the Department of Educational Psy-

chology, will make a video version of a widely used questionnaire on personality and validate it for use with not only mild, but severely retarded individuals.

Let it also be known that the NATO Scientific Affairs Committee has awarded a grant of \$7,600 to Professor Das and Professor Peter Bryant of the Department of Experimental Psychology, Oxford University, to travel to each other's department while collaborating on a learning disability project. Both have developed methods of remediation of reading problems which they wish to compare, as well as cooperate in studying how children develop playful behavior. □

Innovative Projects Update

The following information has been received from Alberta Advanced Education regarding projects which have been funded under its Innovative Projects policy.

Several of the projects nearing completion or recently completed have been developed to improve the delivery system of ongoing courses and programs. Computer simulations are available from the University of Calgary in Training for Independent Inquiry, Simulation Program for Training Teachers, and PISCES Project. Computer-assisted instruction courseware is available from The University of Alberta in Computer-Assisted Instruction in Pharmacology and Learning Systems for Home

Economics, Lethbridge Community College in Orientation to Computer-Assisted Instruction, and SAIT in the Power Engineering Project.

Computer-managed learning systems are available from SAIT, most recently in the Power Engineering Project, Lethbridge Community College in the STORK Project, and The University of Alberta in Learning Systems for Home Economics. A video-disc on wheelchair transfer is available from the Banff Centre, and a simulation of classroom teaching which combines videodisc and computer-assisted instruction is available from The University of Alberta in the SIM-

CLASS Project.

Other Innovative Projects have focussed on the development of curriculum materials. Materials are available on computer applications from Lethbridge Community College in the Agriculture Computer Management Systems. The University of Alberta has prepared curriculum materials in education through Project ASK and Curriculum Materials Kits. Medicine Hat College has

developed basic education materials in Competency Based Mathematics Modules.

The products developed from these projects and the others listed in the Status Report are available at duplication cost to educational institutions. Please feel free to contact the project director should you be interested in obtaining the products, reports, or further information about the projects. □

Telecourse on Microcomputers Offered

A unique summer telecourse is giving teachers and other Albertans the chance to hear about, discuss, and join the microcomputer revolution.

Although specifically developed by the Alberta Educational Communications Corporation (ACCESS) to help meet the urgent need for Alberta's teachers to be trained in the use of microcomputers, the "ACCESS Academy for Microcomputers" is open to all residents of the province.

The main component of the program is twenty one-hour segments of television instruction by Milt Petruk of this University's Department of Industrial and Vocational Education. The segments will be aired on five television stations in Alberta between 9 and 10 a.m. every Monday to Friday, from 18 July to 12 August.

Following each television lesson, Dr. Petruk and Edmonton broadcaster Fil Fraser will co-host a half-hour radio program on CKUA, Alberta's provincial radio network. The program will focus on computer-related issues and, through a toll-free line, allow

listeners to provide feedback.

"This telecourse assumes that those registered have had no previous experience with microcomputers and will include a brief historical review of computer development, terminology, operating procedures, and an introduction to programming in BASIC," says Dr. Petruk. The course will also include lectures and practical demonstrations using the APPLE and COMMODORE microcomputers.

For a \$45 fee, registrants for the telecourse will receive from ACCESS, by mail, a print package of forty-two pages outlining the entire course, along with appropriate exercises and programming examples and a microcomputer diskette. In addition, registrants will receive a private toll-free telephone number, allowing them to call instructors for advice during a set period each day.

TV stations showing the "ACCESS Academy for Microcomputers" include CFRN in Edmonton. Registration forms for the program are available from ACCESS and at Alberta schools. □

Aiding the Physically Disabled

Given that more than a fortnight has passed since the event, personnel in the Research and Training Centre for the Physically Disabled can again be reached at the Centre, W-167 Physical Education Complex. Their previous address was cloud nine. Euphoria was brought on by the 7 June donation of \$24,900 by the Recreation, Parks and Wildlife Foundation. The grant means that the Centre can continue research into physical activity programming for children with physical disabilities.

Chuck Moser, Executive Director of the Foundation, presented a cheque to R.D. (Bob) Steadward, Director of the Research and Training Centre for the Physically Disabled.

The Centre, approaching its fifth birthday, had concen-

trated on the fitness needs of physically disabled adults. Since November 1981, children have been using the facilities more and more. (The Gladys and Merril Muttart Foundation contributed to the Centre and other supporters included the Associated Canadian Travellers Edmonton Club Foundation and The University of Alberta.)

About fifty-five percent of the visitors (adults and children) have spinal cord injuries, fifteen percent are amputees, fifteen percent suffer from cerebral palsy, five percent are visually impaired, and the remainder are disabled due to other causes.

In discussing the Recreation, Parks and Wildlife Foundation grant, Diane Hoy, Children's Program Co-ordinator for the Centre, said that while able-bodied children are



exposed to numerous physical activity opportunities, physically disabled children may be excluded from all or most of these opportunities. The lack of physical activity could be expected to inhibit optimal development both in terms of the acquisition of motor skills and actual physical development.

Resources which might enable physical education and recreation personnel to offer appropriate programs to physically disabled children are lacking, said Miss Hoy. Owing to requests from the community, a research project in children's programming was started in November 1981. The goals are to generate curriculum materials which would help physical activity professionals assess and prescribe programs for disabled children.

Parent groups, the Glenrose Hospital, and the ACT Recreation Centre are obliging in that they direct disabled children to the Research and Training Centre.

Three groups participate in demonstration programs. The electric program is set up to meet the needs of youngsters who use an electric wheelchair or propel a manual wheelchair with difficulty. A junior program (ages four to eight) provides individualized instruction, group games, and free play time. The senior program (ages nine to fifteen) concentrates on the improvement of physical fitness through calisthenics and wheeling. Participants work on basic locomotion and ball control skills and give their all to a variety of sports including basketball, archery, football, and floor hockey. A research project on fitness is underway in conjunction with the senior program.

Senior physical education students can do practicums in these programs.

The design and availability of the appropriate equipment is crucial, Dr. Steadward told the guests whose number included Gordin Kaplan, Vice-President (Research). In days gone by, wheelchairs weighed sixty or seventy pounds; to-

day, an eighteen pounder constructed primarily of aluminum is not uncommon. The price tag, however, can reach \$1,500.

The Research and Training Centre for the Physically Disabled provides individuals with complete fitness and performance evaluations and has had a number of people travel great distances at their own expense to undergo testing and to take away their own training schedule.

The split between competitive athletes and people interested in improving their fitness is about fifty-fifty. At any one time, about thirty-five adults including some University students and staff will be working out at the Centre.

The Centre and the Northern Lights Wheelchair Basketball Club are sponsoring the Summer Wheelchair Basketball Camp at Red Deer College 17 to 20 July. The camp is appropriate for youths between the ages of ten and eighteen with any permanent disability affecting their lower limbs thereby decreasing or eliminating their chance to participate in able-bodied sports.

Campers, who should have reasonably good use of both arms, do not have to be confined to a wheelchair to be eligible. Further information can be obtained from Diane Hoy at 432-3182.

The Recreation, Parks and Wildlife Foundation was created by provincial legislation in 1976. An autonomous agency, it awards grants (323 between June 1980 and March 1983) to projects that don't find a niche by virtue of the fact that "governments do not have the means to identify and finance all the good ideas that exist for enhancing recreation, parks and wildlife opportunities in Alberta."

After considering project proposals the Foundation's board of directors (twelve people from all areas of the province) disburses the donations, bequests and gifts it receives from individuals, organizations and the Western Canada Lottery

Foundation—Alberta Section.

The Foundation strives to provide grants to any person or organization for projects

which will develop or maintain recreational programs, facilities and services; develop or maintain parks; manage and conserve fish and wildlife. □

Environmental Education Field Workshop

The Faculty of Extension will conduct an Environmental Education Field Workshop at the Ministik Hills Field Study Centre from 4 to 8 July.

The workshop will focus upon interpretation of the natural phenomena and ecological relationships observable in the area. Participants will study the plants, insects, birds, mammals and animals inhabiting the bush, bog, slough, meadow, field, lawn and roadside, and will explore the geological and seasonal influences upon these creatures.

Emphasis will also be placed upon identifying resources and methods for integrating an experiential and environmental education approach into school or recreation programs.

grams.

The Ministik Hills Field Study Centre is located on 130 hectares of aspen parkland, fields, sloughs, and black spruce bog in the Cooking Lake moraine fifty kilometres southeast of Edmonton. Accommodation is bunk style, with home-cooked meals served in the old farmhouse. Conveniences include hot and cold water and an indoor lab facility. Students are responsible for their own transportation to the Centre.

The workshop will be led by Joy Finlay, a naturalist, teacher, consultant and author, and Lois Fenna, administrator of the Ministik Hills Field Study Centre. For further information, contact the Faculty of Extension at 432-3033. □

Breton Plots Field Day Scheduled

The 53rd Annual Breton Plots Field Day and Soils-Crops Clinic, sponsored by Alberta Agriculture and the University, will take place on 30 June at 1 p.m.

The theme "Soil Pollution and Land Reclamation" will be addressed by M.J. Dudas, M. Nyborg, and R.J. Logan. Dr. Dudas will speak on "Heavy Metals in Agricultural Soils," and Dr. Nyborg will discuss "Acid Rain and Sulphur Deficiency." Dr. Logan's topic is "Soil Handling—a Key Factor in Land Reclamation."

The Breton Plots, owned and operated by the University, are located about 110 kilometres southwest of Edmonton on Gray Luvisolic soils. These soils are difficult to manage because of poor physical condition,

acidity, and low nutrient status. Research work was started in 1929 and some of the plots have been in operation since 1930. Several new rotations and some short-term experiments are also underway.

A tour of the classical plots, some new rotation plots, and a number of short-term fertilizer experiments will be conducted at 3:30 p.m.

Specialists from Alberta Agriculture will be present to answer specific questions about soils, crops, and weed management. Farmers and gardeners are invited to participate.

For further information on the field day, contact the Department of Soil Science at 432-3242, or Jim Robertson at 432-4942. □

Stage Set for Story of Poland

A theatrical spectacle of music and dance, drama and mime will trace the turbulent story of Poland in a production to be staged at the new Kaasa Theatre in the Northern Alberta Jubilee Auditorium. From 2 to 10 July, "Winter is Yours, Spring is Ours" will take to the stage each evening at 8 p.m. Directed by Ewa Tur-ska, the production is sponsored by the Polish Culture Society of Edmonton.

Tickets for "Winter is Yours, Spring is Ours" are \$10 each and may be purchased at all BASS outlets and at the Jubilee Box Office. More information on the production may be obtained by telephoning 488-4826. □

people

Einer Boberg (Speech Pathology and Audiology) has been awarded Honours of the Canadian Speech and Hearing Association for his leadership and research developments in the treatment of stuttering. Such recognition has been accorded only two other members since 1975.

Byron Kratochvil (Chemistry) has been elected a Fellow of the American Association for the Advancement of Science (AAAS). A Fellow of AAAS is described as: "A member whose efforts on behalf of the advancement of science or its applications are scientifically or socially distinguished." The Association, formed in 1848, is the leading general scientific organization in the United States.

A participant at the recent annual meeting of the Canadian

Association of University Business Officers was **L.C. Leitch**, Vice-President (Finance and Administration). Mr. Leitch took part in a panel discussion on the topic "Human Values and Management Style," and conducted a workshop on the subject of budgeting.

In support of the World University Games, **Ann M. Pagliaro** (Nursing) and **Gloria J. Kline** (BEd Home Economics, Alumni) have co-authored the official Universiade cookbook, *Recipes of the World*. Recipes and information about each country were submitted by embassies of the countries participating in the Games. The cookbook is dedicated to the student athletes in hopes of fostering greater cultural sharing and appreciation of the rich and diversified contributions of the many peoples participating in the World University Games.

Val Polakow Suransky, Assistant Professor in the University of Michigan's Department of Educational Psychology, visited campus recently and gave a public seminar entitled "Critical Pedagogy and Poetics of Child-Life." The seminar was sponsored by the Department of Secondary Education, Inquiries in Curriculum and Instruction.

service information

All information to be included in this column must reach the Office of Community Relations by 9 a.m. the Thursday prior to publication.

Coming Events

Lectures and Seminars

Department of Family Studies
23 June, 2 p.m. Pat Murray, Visiting Professor from Nepean College of Advanced Education, Kingswood, Australia will present a seminar entitled "Home Economics Perspectives in Australia: Variations on an Original Theme." 814 General Services Building.

Department of Secondary Education

23 June, 2 p.m. Ton Beekman, Department of Theoretical and Practical Pedagogy, University of Utrecht (Netherlands), will speak on "Dialectic of Life World." 1-109 Education North.

Department of Plant Science

28 June, 1:30 p.m. Paul A. Brocklehurst of the Physiology Section, National Vegetable Research Station, Wellesbourne, England, will present a seminar entitled "Improving seed germination and seedling emergence." 522 Agriculture-Forestry Centre.

Exhibitions

16 June to 10 July. "Local Exposure: Swimwear on the Prairies." The exhibit illustrates the vast changes in the appearance of swimwear in the past 100 years, as a result of changes in fashion technology and attitudes towards modesty. Dress-maker, knit and synthetic suits, representative of those worn on the Prairies, are presented in playful beachlike setting. In the yellow and white tent, south of the Home Economics Building.

Ring House Gallery

Until 31 July. "Masquerade"—celebrating Universiade '83.

75th Anniversary Events

Until 30 June. Department of Philosophy faculty publications are on display on the 2nd Floor, Humanities and Social Sciences Library, Rutherford North, across from the Circulation desk.

Devonian Botanic Garden

The University of Alberta Devonian Botanic Garden is open to the public, free of charge, from May to September. The hours are 10 a.m. to 4 p.m. weekdays and noon to 6 p.m. weekends and public holidays. The Garden welcomes visitors and is located on Highway 60, some 4.8 kilometres north of Devon.

Rutherford House

The restored home of Alberta's first premier, A.C. Rutherford is located at 11153 Saskatchewan Drive. Costumed staff lead visitors through the house and help recreate the atmosphere of the 1911-1915 period. Open: Victoria Day weekend to Labour Day—10 a.m. to 8 p.m. daily. For more information or to arrange group tours, phone 427-3995 or 427-5708. Free admission.

Non-Credit Courses

Computing Services

Client Training Sessions

Computing Services is taking registrations between 8:30 a.m. and noon for the following non-credit courses. Please phone 432-2261 first to confirm the dates. Payment is required in advance and clients who do not cancel two business days in advance will be charged. Contact Carey, Training Assistant, 323 General Services Building, telephone 432-2261, for

more information.

Introduction to the BMDP Control Language

Course number: 1067. Date: 27, 29 June. Time: 2 to 4 p.m. Fee: \$5. Prerequisites: "MTS and Editor Fundamentals," "MTS and File Editing Concepts," or a good working knowledge of MTS is required. The "Data Preparation for Statistical Packages" seminar is recommended. Place: 769/351 GSB.

Advanced SPIRES

Course number: 1063. Date: 15, 18, 20, 22, 25, 27, 29 July. Time: 1 to 4:30 p.m. Fee: \$25. Prerequisites: "Introduction to SPIRES." Place: 769/357 GSB.

Introduction to the SPSS Control Language

Course number: 1069. Date: 12 July—9 a.m. to noon and 14 July P 10 a.m. to noon. Fee: \$5. Prerequisites: "MTS and Editor Fundamentals," "MTS and File Editing Concepts," or a good working knowledge of MTS is required. "Data Preparation for Statistical Packages" is recommended. Place: 769/351 GSB.

Integrated Graphics Overview

Course number: 1065. Date: 6 July. Time: 1 to 3:30 p.m. Fee: \$10. Prerequisites: "Introduction to Plotting" is recommended. Place: 769 GSB.

Introduction to MIDAS

Course number: 1068. Date: 4, 6 July. Time: 11 a.m. to 1 p.m. Fee: \$5. Prerequisites: "MTS and Editor Fundamentals," "MTS and File Editing Concepts," or a good working knowledge of MTS is required. The "Data Preparation for Statistical Packages" seminar is recommended. Place: 769/351 GSB.

Introduction to MINITAB

Course number: 1071. Date: 26 July. Time: 1 to 4 p.m. Fee: \$5. Prerequisites: "MTS and Editor Fundamentals," "MTS and File Editing Concepts," or a good working knowledge of MTS is required. "Data Preparation for Statistical Packages" is recommended. Place: 769/351 GSB.

Introduction to Computing at the U of A

Course number: 1008. Date: 4 July. Time: 9 to 11 a.m. Fee: \$10. Prerequisites: No previous computing experience, but familiarity with a keyboard is required. Place: 351 GSB.

MTS and Editor Fundamentals

Course number: 1009. Date: 6, 8 July. Time: 9 to 11 a.m. Fee: \$15. Prerequisites: "Introduction to Computing." Place: 351 GSB.

Faculty of Extension

Fitness Classes

For further information on the courses listed below, phone 432-2015.

From Fat to Fit

Date: Starts 11 July. Time: Monday, Wednesday and Friday from 10:30 a.m. to noon for three weeks.

00:

page twenty-one, Folio, 23 June 1983

Get Fit Co-ed Class

Date: Starts 11 July. Time: Monday, Wednesday and Thursday from 5:30 to 6:30 p.m. for three weeks.

Immersion Fitness Co-ed

Date: Starts 11 July. Time: Tuesday, Wednesday, Thursday, and Friday from 9 to 10 a.m. for three weeks.

Tai Chi Classes

Date: Starts 12 July.

Time: Monday and Thursday from 6 to 7:30 p.m. for four weeks.

Department of Computing Science and the Faculty of Extension

Local Area Networks

Date: 4 to 8 July. Time: 9 a.m. to 4:30 p.m. This workshop will demonstrate inter-relationships that exist among productivity, job performance, and the need for understanding the services to be derived from computers and communications. For further information, phone 432-5066 or 432-5067.

Notices

General Faculties Council

GFC's next meeting is scheduled for Monday, 27 June, at 9 in the University Hall Council Chamber.

1. Approval of the Agenda
2. Approval of the Minutes of 25 April 1983
3. Question Period
4. New Members of GFC 1983-84

Reports

5. Executive Committee Reports
- 5.1 Executive Committee Minutes of 11 April 1983
- 5.2 Executive Committee Minutes of 9 May 1983
- 5.3 Executive Committee Minutes of 20 June 1983
6. Report of the Board of Governors
7. Report of the Nominating Committee
8. Facilities Development Committee: Oral Report
9. Academic Development Committee: Oral Report
10. Planning and Priorities Committee: Oral Report
11. World University Games: Report

New Business

12. Restructuring of the Faculty of Physical Education and Recreation: Proposal from the Planning and Priorities Committee
13. Other Business*

Note: The 1981-82 Report of the University Librarian is available to GFC members upon request. Copies will be brought to the 27 June GFC meeting.

*To check on late additions to the above agenda that resulted from the 20 June meeting of the GFC Executive Committee, telephone the Secretary to GFC, 432-4965.

Special Convocation:

Academic Procession

Academic regalia has been reserved for

University faculty who have indicated to the Protocol Office that they wish to take part in the 30 June Special Convocation in honor of His Royal Highness Prince Charles. Those taking part in the academic procession are asked to pick up their regalia in the meeting room on the lower floor of the Northern Alberta Jubilee Auditorium between 11:30 a.m. and 1:30 p.m. on the 30th. The procession will assemble at 1:45 p.m.

Special Convocation: Parking

Since parking will be at a premium for the Special Convocation honoring the Prince of Wales, the Protocol Office has asked that those able to get to the 30 June event using transportation other than a car do so. For those driving, parking attendants will direct them to alternate parking areas once the Northern Alberta Jubilee Auditorium lot fills up.

Bicycle Found

Campus Security is holding a young person's Motocross bicycle that was found on 18 April in the vicinity of Old St. Stephen's College. The item is in very good condition. The individual claiming ownership should contact Campus Security at 432-5252. If ownership can be established, the bicycle will be returned.

Summer Fun Field Day

Wednesday, 29 June, noonhour. At the summer exhibit tent south of the Home Economics Building, Victorian wet bathing suit races, beach ball toss, hairy chest contest, frisbee throwing, and lots of other events. Individual and team competition. Many prizes. Phone 2528 for information and entries.

Positions Vacant

The University of Alberta is an equal opportunity employer but, in accordance with Canadian Immigration requirements, these advertisements are directed to Canadian citizens and permanent residents.

Assistant to the Dean of Students in Residence (Kelsey Hall)

The Assistant to the Dean of Students in Residence resides in Kelsey Hall, a 400-student co-ed residence located within the Lister Complex.

The Assistant to the Dean in Residence represents the University Administration in the conduct of Student Affairs within the Residence by serving as an Advisor to the Student Government and seeing to the general welfare of students residing in that Hall.

The Assistant to the Dean in Residence reports to the Dean of Students, and is responsible for discipline and the improvement of residence life within that Hall.

The ideal candidate is the University graduate returning to The University of Alberta for an advanced degree after working in a related field. The applicant should have some experience in student affairs, counselling, or some aspect of University administration.

Further information can be obtained by contacting the Assistant Dean in Residence-Coordinator at 432-4145 during office hours.

Starting date: 1 August 1983. Résumé and curriculum vitae should be sent to: Assistant to the Dean in Residence-Coordinator, c/o Office of Student Affairs, 225 Athabasca Hall, The University of Alberta, Edmonton, Alberta T6G 2E8.

Editor

Required by the University of Alberta Press. Applicants must have had experience in a trade or academic publishing house, perhaps as an assistant editor. Ability to work on own initiative required and knowledge of all phases of book production essential. Salary commensurate with experience and qualifications, but not less than \$25,000 per annum, plus all benefits pertaining to academic staff (A/PO). Applicants should send a résumé, plus names of two referees, to Mrs. N.D. Gutteridge, Director, The University of Alberta Press, 450 Athabasca Hall, Edmonton, Alberta, T6G 2E8. □

Non-Academic Positions

To obtain further information on the following positions, please contact Personnel Services and Staff Relations, 2-40 Assiniboia Hall, telephone 432-5201. As positions are filled on an on-going basis, these vacancies cannot be guaranteed beyond 17 June 1983. Salaries are currently under review. For a more up-to-date listing, please consult the weekly Employment Opportunities Bulletin and/or the postings in P.S.S.R.

- Clerk Steno II (Part-Time) (\$553-\$662) Philosophy
- Office Services File Clerk (\$1,030-\$1,232) Registrar's Office
- Senior Financial Records Clerk (Part-Time) (\$985-\$1,189) Mechanical Engineering
- Senior Clerk (\$1,106-\$1,324) Registrar's Office (2 positions)
- Clerk Steno II (\$1,106-\$1,324) Economics
- Clerk Typist III (Part-Time Trust) (\$616-\$744) Faculté Saint-Jean
- Clerk Typist III (Part-Time) (\$739-\$892) Microbiology
- Clerk Typist III (\$1,232-\$1,487) Plant Science
- Admissions Records Trainee (\$1,232-\$1,487) Registrar's Office
- Student Records Processing Clerk (\$1,232-\$1,487) Arts

- Data Control Clerk (\$1,274-\$1,548) Faculty of Extension
- Accounts Clerk (\$1,373-\$1,682) Comptroller's Office
- Secretary (\$1,373-\$1,682) Dentistry
- Secretary (\$1,373-\$1,682) Field Services Education
- Secretary (\$1,373-\$1,682) President's Advisory Committee on Campus Reviews
- Secretary (\$1,373-\$1,682) Biochemistry
- Administrative Clerk (\$1,373-\$1,682) Elementary Education
- Administrative Clerk (\$1,373-\$1,682) Faculty of Extension
- Medical Steno (\$1,373-\$1,682) Surgery
- Executive Secretary (\$1,548-\$1,908) Vice-President (Academic)
- Executive Secretary (Part-Time) (\$1,238-\$1,526) Vice-President (Academic)
- Computer Assistant I (\$1,106-\$1,324) Computing Services
- Magnetic Tape Librarian (\$1,274-\$1,548) Computing Services
- Storeman II (\$1,324-\$1,616) Pharmacy
- Building Service Worker III (\$1,373-\$1,682) Physical Plant
- Food Services Worker IV (\$1,426-\$1,754) Housing and Food Services
- Technician I (\$1,426-\$1,754) Genetics
- Technician I/Technologist I (Trust) (\$1,426-\$1,992) Pharmacy
- Computer Operator I (\$1,487-\$1,829) Computing Services
- Biochemistry Technologist I (Trust) (\$1,616-\$1,992) Cancer Research Group
- Art Technician Demonstrator II (\$1,908-\$2,368) Drama
- Building Superintendent II (\$2,078-\$2,581) Physical Plant (Building Services)
- Plant Operator II (\$2,171-\$2,699) Physical Plant (Heating Plant)
- Programmer/Analyst III (\$2,472-\$3,085) Computing Services
- Programmer/Analyst IV (\$2,951-\$3,697) Office of Administrative Systems
- Programmer/Analyst V (\$3,229-\$4,050) Computing Services

For vacant library positions, please contact the Library Personnel Office, 5th floor Cameron Library, telephone 432-3339.

Advertisements

Advertisements must reach the Editor by 3 p.m. on the Thursday prior to publication date which date also serves as the deadline for cancellation of advertisements. The cost of placing adver-

EVER WANTED A CAVITRON
TO PUT ON YOUR DESK?
EVER WANTED A DESK
ON WHICH TO PUT YOUR CAVITRON?



WE HAVE IT ALL!!
U of A Surplus Sales - AUCTION August 13th
WATCH THE FOLIO FOR MORE DETAILS

tisements is 30 cents per word with no discount for subsequent insertions. There are no refunds. There is a maximum limit of thirty words and a minimum charge of \$1.50. Contributors' corrections will be assessed at \$1.50 for each line in which an insertion is made. Advertisements cannot be accepted over the telephone.

Accommodations available

Owner sale - Southside, excellent value.

Fine, two-storey home, quietly located, easy access University/downtown. Open house Sundays. 1-5 p.m. 10808-68 Ave. \$94,900. Kevin 1-551-0149 (toll free), 437-2229.

For rent - Furnished, two-storey, three bedroom house. Central, charming location. 126 St.-109 Ave. Fireplace, fenced, garage. All appliances and furniture if desired. \$800/month. August 1983. 454-5569.

For rent - Clean, comfortable, furnished basement suite in lovely, large, Strathcona home. Suitable for (non-smoker) female. No pets. 15 June. Contact Vince/Fran after 6 p.m. 439-9704.

For rent - Sabbatical home. Furnished, three bedroom bungalow. Quiet crescent in Duggan. August 1983 - June 1984. 436-6606.

House for rent - Responsible person or couple needed to rent charming older home. Furnished or semi-furnished. Close to University. August 1983 to September 1984. Call 432-5265 or 433-2630.

For rent - Large, furnished or unfurnished, five-bedroom home (September 1983, or earlier, to July 1984). 432-5106, 487-3415.

For sale - Mature trees and hedge invite you to enjoy this fine semi-bungalow in convenient Parkallen. \$84,500. Call DeAnna Larson, 481-0936. Spencer's.

For rent - Luxury, highrise condo. Claridge House, one block to University. Two bedrooms, two baths, ensuite laundry, air conditioned, 1,400'. \$775. 436-4428. Available 1 August.

Saleable Claridge House - Secured underground parking. 6th floor, one-bedroom unit. West balcony, six appliances, pool, jacuzzi, sauna, two blocks University. Asking \$97,500. Pat Anholi, Maxine Tipper. Langley Realty, 436-3050.

For sale - Nice, two bedroom. Parkallen bungalow, freshly painted, \$78,000. Please call DeAnna Larson, 481-0936, 436-5250. Spencer's.

Rent - Luxury, three-bedroom condominium in Blue Quill, carpeting

throughout, living room with fireplace, five appliances, patio, garden, garage. \$700/month plus utilities. 459-5175 after 6 p.m.

Sleeping room - Male, graduate student, non-smoker. Quiet home, private entrance, near Lister Hall. 439-1793.

For sale - Belgravia. 1,530', split level on quiet street. Hardwood floors. 16x32 heated pool. \$159,000. 437-4428, 466-8445.

For sale - Saskatchewan Drive, view property. 1,590 sq. ft. cedar bungalow. Fireplace, developed basement, 80x150 foot lot. Liz Crockford. 436-5250. Spencer's.

For rent - Luxuriously furnished, Riverbend townhouse, for coming University season. Mature, sober, non-smokers only. \$850 plus utilities. 434-0785 after 1 July.

Sale - More taste than money? Then view this two-bedroom home. Oak, citation, kitchen cupboards, built-in dishwasher, hardwood floors, developed basement. \$66,000. Access University. Joyce Byrne, Spencer's. 435-6064 evenings.

For rent - Furnished, two bedroom condominium. June - September. Five appliances, fully carpeted, underground parking, air-conditioned. All utilities included. \$550/month. Garneau. Call 439-7522 or 1-349-3169.

For sale - New listing in Belgravia. 1,550 sq. ft. 1 1/2 storey, architecturally remodelled. Liz Crockford, 434-0555, 436-5250. Spencer's.

Pigeon Lake Real Estate: buying or selling lakefront, backlots, acreages, farms. Call Eric Easterby, 462-6760, 424-5930.

For rent - 9935-87 Ave. Two bedroom house. Self-contained, basement suite. Heated garage. Appliances. Ideal for sharing. 464-4122 after 6:30 p.m.

Reasonable rent - Nice, old house (unfurnished) next to park. Central location, new appliances, non-smokers, no pets. Mid-August for one year. 488-7386.

For rent - Comfortable, three-bedroom, upper duplex. Nice district, close to University, schools, buslines. Four appliances, garage, fenced yard. Available 1 July. Phone 439-3171 after 6 p.m. or weekends.

For rent - Two year lease, bungalow, Valleyview. 483-8507. 7:30 - 9 a.m., 6 - 11 p.m.

For rent - One-bedroom suite until 31 August 1983. \$325. Phone 437-4911.

For rent - Petrolia. Four-bedroom bungalow, express busline to University. 435-6208.

For sale - Elegant, executive home, old Riverbend. Four-bedrooms, family room, fireplace, patio doors to mature setting. 36x18 heated swimming pool, whirlpool. Possession negotiable. Erwin Fissenwert, 433-5357, 436-3050. Langley R.E.

For rent - Two-bedroom apartment. July-August 1983. \$455/month, utilities included (except telephone) furnished, one bedroom only. 11145- 87 Ave. 433-0353.

For rent - University Avenue, 10839. Completely furnished, one-bedroom apartment. \$400-\$380. 488-9151, 439-6623.

For sale - By owner. Bright, four-bedroom, bi-level: Petrolia. Two bathrooms. Rumpus room. Oversized, double garage. \$92,800. New microwave oven as finders fee. 438-0038.

For rent - Belgravia. Four-bedroom house, partly finished basement, large sun-deck. Summer '83-'84. \$900, negotiable. 438-3487.

Sale or rent - 1,400', highrise condo., one block University, two bedrooms, two baths, ensuite laundry, six appliances, air conditioned, two underground parking stalls. Call 432-0448 after 6 p.m.

For rent - Four-bedroom, two-storey, on quiet crescent in southwest. Double garage, three baths, large yard. From about 1 September for 10-12 months, furnished or unfurnished. 436-6032.

For sale - Four-bedroom house, Millcreek Ravine. \$68,000. 9115-79 Ave. 466-0398.

Accommodations wanted

Accommodations needed for two adults for July - August. 433-2320, 458-3613.

Automobiles and others

16 horse, Case tractor with various implements. Best offer. Call 439-3531.

Goods for sale

17-foot Gruman canoe, \$500. 16-foot sloop, rigged sailboat with trailer. \$2,500. 434-9232.

Teak sofa and chair, \$400. 488-4951. Stereo: Hitachi, HA-3700, AMP FF3400 tuner, Rotel RP550-DD turntable, empire cartridge, soma 735B 75-watt speakers. Year-old, superb. \$850 O.B.O. 439-9482.

Services

Donnic Word Processing. Specializing in theses, manuscripts, etc. 8315A-105 St. 432-1419.

Singing teacher, Eileen Turner 439-4661.

Back Basics! Total care for back and spine! Medical massages - unique physiotherapy. Spine specialist, Maria Krieg, University trained in Duesseldorf. Gift certificates. 11627-75 Ave. 436-8059.

Professional typist - Word processing. Specializing in theses and dissertations. Gwen, 467-9064.

School of the French Alliance offers three intensive French summer courses for adults and children at all levels including kindergarten. For information contact 433-7946.

Models required for figure photography. Pay, half of profits. No experience necessary. P.O. Box 372, Edmonton.

Western Relocation offers quality furnishings and appliances for rent. Reasonable rates. Call Janet Jenner, 438-1044.

The Edmonton Art Student League, EASL, now offering summer classes. Drawing, painting, for information call George, 455-2905, Adele, 455-7983, 455-6463.

Books bought and sold - The Edmonton Book Store in the HUB Mall will pay cash for book collections and individual, rare items. Appraisals available. Open seven days a week. 433-1781.

Experienced MTS and Micro Computer Programmers available. Local computing firm looking for MTS or other computer related work. Contact 'Nexus Computing Corporation' Box 645, SUB 11, U of A, T6G 2N2 or phone 432-7209.

Notice to Faculty and Staff

During the World University Games (July 1 - 11), CAB Cafeteria will remain open to the general public as usual.

The hours of operation will be extended from June 19 - July 13 as follows:

7 a.m. to midnight, seven days a week.

Housing and Food Services
University of Alberta

HAVE YOU...

...noticed our ad for an auction sale???

If your department has equipment to sell please contact Bonnie at...

...432-3208 or 432-5393...



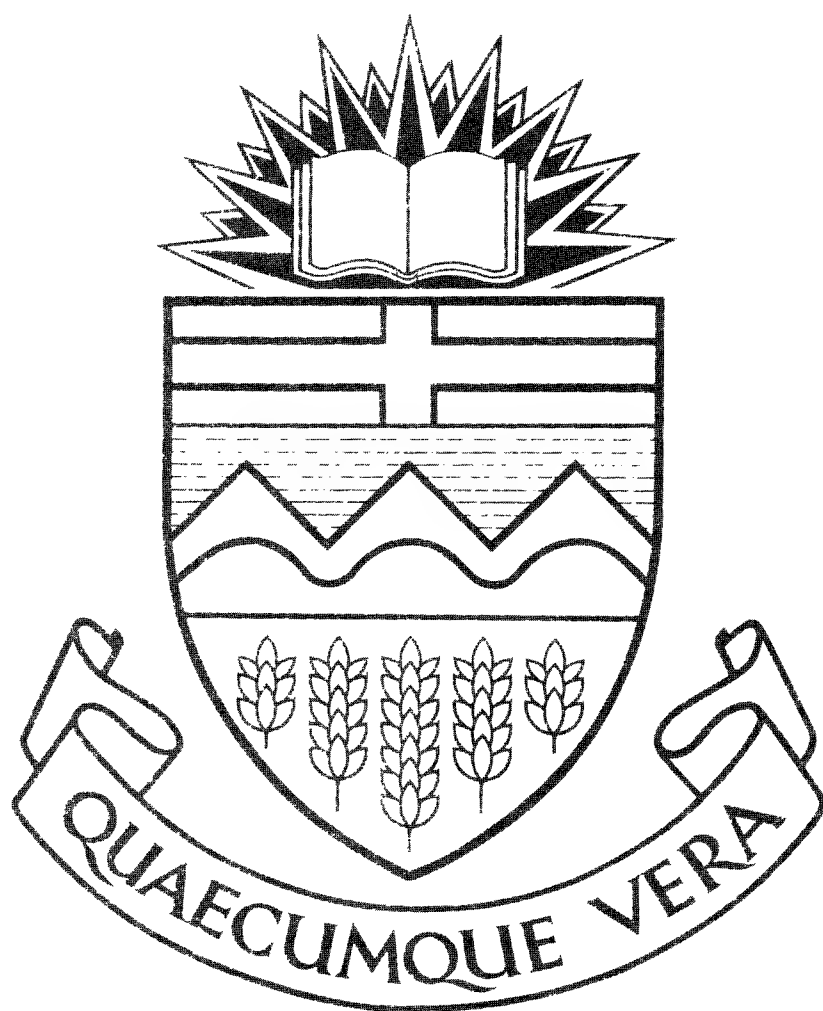
Two of the most familiar faces in the world will be very much in evidence in Edmonton next week. His Royal Highness Prince Charles, accompanied by his wife, Princess Diana, will officiate at the opening ceremonies of the 1983 World University Games. In addition, the Prince of Wales will be honored at a Special Convocation to take place at the Northern Alberta Jubilee Auditorium on 30 June, the final day of the University's 75th Anniversary

By Rick

The Governors

Report to the Community 1981-82

University of Alberta



To the Minister of Advanced Education and to the People of Alberta

On behalf of the Governors of The University of Alberta, and in accordance with the provisions of *The Universities Act*, we have the honor to transmit the annual report of The University of Alberta for the fiscal year ending 31 March 1982 and the academic year ending 30 June 1982.

The past year, the seventy-fourth since regularly scheduled classes began on 25 September 1908, has been an eventful one in the life of our institution. Enrolments of undergraduate and graduate students rose several percentage points to a new level of 29,939 N students undertaking full- and part-time studies. As an institution we looked to the immediate future, the celebration of our seventy-fifth anniversary, and the World University Games to be co-hosted by the City of Edmonton from 1 to 11 July 1983; and we also looked further ahead to see how best The University of Alberta can continue to fulfill its mandate of service to the community-at-large. A very significant event in the latter regard was the publication in April 1982 of The University of Alberta Senate's *Report of the Commission on University Purpose*, the result of two and a half years of detailed consideration into what essentially is a "university" in modern day society.

A university, it appears, can be many things to many people. It has its foundation, however, in two mutually dependent bases—the acquisition of knowledge and the transmission of knowledge. Consequently, it is a university's duty both to teach and to engage in research.

During the reporting year, research at The University of Alberta has continued to receive the high prominence that investigation at the forefront of knowledge rightly demands. Reflecting the importance of research to our community, was the appointment, effective 1 July 1981, of a new Vice-President (Research), Dr. J. Gordin Kaplan, formerly of the University of Ottawa. In addition, the thrusts initiated in 1980-81 by the establishment of the Endowment Fund for the Future were continued with the award of several Arthur G. McCalla Research Professorships and the appointment of the first two Henry Marshall Tory Professors, Dr. Milton Freeman and Dr. Heinrich P. Baltes, who in their respective fields of Anthropology and Electrical Engineering, are researchers of international renown. The Henry Marshall Tory Professorships are named for The University of Alberta's first President. They are intended for outstanding individuals who by their presence will enhance the reputation of the University and who can provide leadership and experience for the strengthening of teaching and research in specific disciplines at the University.

There have been many other initiatives taken to promote research and it is impossible to mention them all in this brief message. During the reporting year the first two University of Alberta Research Prizes, intended to demonstrate the singular importance of research and scholarship in the life of this institution, were awarded to renowned political scientist Dr. Leslie C. Green and the internationally acclaimed synthetic chemist Dr. Raymond U. Lemieux, both members of our

faculty. Professor Lemieux's work was further recognized by the Province of Alberta in June 1982, when he was awarded the prestigious Sir Frederick Haultain Prize for exceptional accomplishment.

Many other members of staff have also received recognition for their outstanding contributions to scholarship. While it may appear invidious to single out individuals, as examples of the depth and breadth of research conducted at this University, we may refer to Dr. Werner Israel, who in July 1981 received the Canadian Association of Physicists 1981 Medal for Achievement; Dr. Alexander R. Robblee, who was awarded the Canadian Feed Industry Association Golden Award for his contributions in the area of poultry nutrition; and Dr. Edwin A. Cossins, who was recognized by the University of London by the award of a Doctor of Science degree in light of his research in the field of Plant Biochemistry.

Central to the development of research at any institution are the funds that are provided for this purpose by governmental and private or corporate agencies. In this regard, it is perhaps illustrative of the work done in our Faculty of Engineering that the Dean of the Faculty, Dr. Peter F. Adams, was appointed during the year to the Natural Sciences and Engineering Research Council of Canada by the Minister of State for Science and Technology. The Council is the largest single funder of research in this country. Another example of the federal government's commitment to high technology research was the opening in April of the Microelectronic Development and Applications Centre at The University of Alberta. Funded by a \$1 million grant from the Federal Department of Industry, Trade and Commerce over the next five years, the Centre will have a province-wide impact especially in the business community.

Provincial initiatives have been similarly effective. The recently established Alberta Heritage Foundation for Medical Research is, without exaggeration, one of the most far-sighted initiatives undertaken by any government in the world today. The generous funding provided by the Foundation continues to attract to our Province and University top-flight researchers in virtually every field of medical endeavor. As an example of provincial agencies' commitment to the development of research potential, we might also cite the Alberta Research Council's generous loan of a computer to the Department of Electrical Engineering's Undergraduate Projects Laboratory in August 1981. Students working in the laboratory, as members of the Electrical Club, gain valuable experience in projects designed to assist industry and local community groups.

There are many other individual and corporate benefactors who have done much during 1981-82 to promote research at this University. In the medical field, the Gladys and Merrill Muttart Foundation provided funds for the establishment of the Muttart Diabetes Research and Training Centre—a centre that is only paralleled in Canada by the Banting

Institute in Toronto. In the same area, and appropriate for the United Nations-designated "International Year of the Disabled," The Max Bell Foundation provided very generous support for the University's Research and Training Centre for the Physically Disabled. Another area of research, the development of children, is of critical importance to the well-being of our society. In recognition of the necessity for research in that field, two major foundations gave very significant assistance to thrusts undertaken at this University. The Donner Canadian Foundation provided support to our Boreal Institute for Northern Studies for its continuing assessment of the physical and nutritional status of children in the Northwest Territories. Also, underpinned by a generous five-year grant from the Clifford E. Lee Foundation, the Faculty of Home Economics was able to establish a new chair in the Department of Family Studies, the Clifford E. Lee Distinguished Professorship in Child Development, the first incumbent being Dr. Frederick J. Morrison, a well-known Canadian expert in this field.

Not all support for research, however, is directed toward the scientific, engineering and medical fields. Nor does all support emanate from larger institutions, whether philanthropic organizations or government agencies. In fact, the most significant benefaction in 1981-82 came from a private individual, Mr. Sandy Mactaggart. His gift of land, to be used as a wildlife sanctuary, has been matched under the terms of the Province's 1980s Advanced Education Endowment Fund and will be used to support scholars in their research in the humanities and social sciences.

The support and encouragement of research, then, lie at the very heart of a university and, together with teaching and learning, constitute the essence of a healthy and vital institution. In 1981-82, great emphasis continued to be placed on the quality of instruction at The University of Alberta. Under the auspices of the General Faculties Council's Committee for the Improvement of Teaching and Learning, seminars were conducted to assist staff evaluate and improve their effectiveness. Also, for the first time, the University, through its Undergraduate Teaching Awards Committee, honored excellence in instruction. In 1981-82, a new award, the Rutherford Award for Excellence in Undergraduate Teaching, was established and presented to Professor Roger Beck of the Faculty of Business, Dr. John Kuspura of the Department of Genetics, and Dr. Charles Stelck of the Department of Geology. The presentations were made on 11 May 1982 by Mrs. H. S. McCuaig, daughter of the Province's first Premier, A. C. Rutherford, for whom the award is named.

The focus of this letter of transmittal has been research, but it has also been one of people and their contributions to our society. It is always a delight and a source of great pride to honor outstanding contributions. One such occasion in the reporting year took place on 16 October 1981, World Food Day, when a Special Convocation was held to bestow an

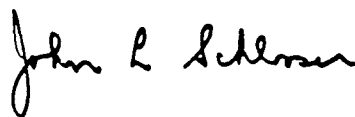
honorary Doctor of Science degree on Dr. Arthur G. McCalla, former Dean of Agriculture and first Dean of the Faculty of Graduate Studies. The same day saw the official opening by the Premier, the Hon. Peter Lougheed, of the University's Agriculture-Forestry Centre. The splendid new facility has brought under one roof the Departments of Agricultural Engineering, Animal Science, Food Science, Plant Science, and the Office of the Dean.

As we have just stated, the University's story is one of people and their contributions. The contributions of our scholars, staff and students are highly valued. As an institution, however, we value no contributions more highly than those of our Board of Governors. The Governors of The University of Alberta are volunteers who are dedicated to the welfare, the support and management of one of this country's most renowned centres of academic excellence. In 1981-82, we bade farewell to several retiring members: Mrs. Jean B. Forest, who for a decade was a Governor and then Chancellor of our University; Dr. Bernard S. Adler, a representative of our Alumni; public representative Mr. Erwin Mertens; academic staff representative Dr. Robert S. Crawford; undergraduate student representatives Miss Kris Farkas and Mr. Phil Soper; and graduate student representative Mr. Niall Shanks. The University and the people of Alberta have been well served by these Governors' trusteeship.

We also welcomed in 1981-82 several new Governors, whose combined experience and dedication will have a significant and beneficial impact on our University's ability to serve the people of our Province: Chancellor Peter Savaryn, Q.C.; Mrs. Jean E. Mucha; Dr. Joseph R. Kandler; Dr. Ronald T. Coutts; Mr. Brian Bechtel; Mr. Robert Greenhill; and Mr. Robert Ascah.

This letter and the reports that follow cannot in such brief space detail every achievement and accomplishment that mark a year in the life of our institution. We trust, however, that this Report of the Governors of The University of Alberta, 1981-82, reflects our institution's continuing commitment to excellence and to service.

Sincerely,



John L. Schloser
Chairman



Myer Horowitz
President

Report of the Academic Concerns Committee

The Academic Concerns Committee is charged with the responsibility for review and recommendation to the Board of Governors on all matters of academic significance that fall within the purview of the Board. In the period July 1981 to June 1982, these considerations were many and varied.

Academic Organization

The Academic Concerns Committee recommended and received Board approval of a number of proposals for Faculty reorganization along departmental lines, all of these being directed to a stronger and more effective operating structure:

- a new Department of Slavic and East European Studies, via the merger of the existing Division of East European Studies and the Department of Slavic Languages.

- a new Department of Applied Sciences in Medicine, via the merger of the existing Divisions of Biomedical Engineering and Applied Sciences and Health Sciences Computer Applications.

- a new Department of Health Services Administration and Community Medicine, via the merger of the existing Department of Community Medicine and the Division of Health Services Administration, and

- the formal entitling as Departments of the three Divisions in Home Economics: Clothing and Textiles, Foods and Nutrition, and Family Studies.

Two proposals for changes in nomenclature were endorsed:

- that the Department of Medical Bacteriology be renamed the Department of Medical Microbiology, and

- that the Faculty of Business Administration and Commerce be renamed the Faculty of Business.

The Committee also supported a series of proposals regarding the composition of Selection and Review Committees for Deans, Department Chairmen, and the Chief Librarian, these proposals being designed to provide appropriate input to a given committee.

In addition, the Committee was advised of a streamlining of the decision-making process whereby GFC delegated to the Vice-President (Academic) the authority to approve centres or institutes if the proposals have Faculty/Departmental sponsorship, involve no request for additional funds or space, and appear (after appropriate consultations) not to raise jurisdictional or larger issues of University-wide support. The delegation has thus far been applied to two proposals: an institute for Financial Research, and a Centre for International Education and Development.

Academic Personnel

In accord with established procedures, the Academic Concerns Committee received for information and onward transmission the 1980-81 *Annual Report to the Board of*

Governors on Academic Staff by the Vice-President (Academic). The report contained details of individual personnel decisions which had been delegated to the administration including (among other items) a summary of appointments, terminations, and tenure decisions. The Committee also received for information from the administration a notice of fourteen appointments and six reappointments of Department Chairmen, in accord with the decisions of duly constituted Selection and Review Committees. A complete listing follows this report.

Four other nominations for appointment were approved by the Board on individual recommendations from the Committee:

- Dr. B. R. Abu-Laban as Associate Vice-President (Research), this appointment involving prior Board approval for the creation of the position,

- Mr. P. L. Freeman as Chief Librarian, succeeding Mr. B. Peel on his retirement after long service to the University community, and

- Dr. M. M. R. Freeman and Dr. H. P. Baltes to Henry Marshall Tory Chairs in Anthropology and Electrical Engineering, respectively, these two nominations being in accord with the November 1980 Board-approved guidelines for The University of Alberta Endowment Fund for the Future, and the Tory Chairs being one of the categories of expenditure for this Fund.

A recommendation that The University of Alberta continue to have University Professorships was also endorsed, in the light of a review and report by a GFC Executive Subcommittee.

Academic Programs

The Academic Concerns Committee endorsed a wide range of new program initiatives, subject in the majority of cases to special government funding. These included: a Ph.D. program in Business Management; a Ph.D. program in Forest Science; an M.Ed. program in Adult and Higher Education; a Graduate Service Program in Applied Statistics including a Statistical Services Laboratory and a new M.Sc. Specialization in Applied Statistics; an expansion of Local Government Studies Programs; a B.Sc. Special Degree Program in Computer-Assisted Cartography; the provision, as an option, of an accelerated B.Sc. program in Occupational Therapy, and an Institute for the Study of Learning Disabilities.

The Committee was also advised of approval by the Faculty of Graduate Studies and Research of two sub-specializations in Educational Psychology, the M.Ed. and Ph.D. degrees in Special Education having added as a specialization, "Multiple Dependent Handicapped," and as another specialization "Hearing Impaired."

In the light of changing circumstances and of a review



1981-82 marked the final year of Mrs. Jean B. Forest's term as Chancellor. Mrs. Forest was Chancellor of The University of Alberta from 1978 to 1982.

involving all interested parties, the Academic Concerns Committee supported the GFC recommendation that the existing Community Development program and its administrative structure be discontinued. The proposal was subsequently approved by the Board, it being understood that closure of the CD Division does not mean the end of initiatives in this area, and that there is provision—notably within the Faculties of Arts, Education, Extension and Graduate Studies—for responding to individual student interests and needs.

Other Academic Matters

In response to a Board referral, the Academic Concerns Committee undertook as its major project in 1981-82 an examination of graduate studies and research at The University of Alberta. In accord with established practice, the Committee scheduled a series of meetings at which various interested parties on campus were invited to speak to this topic. The discussions covered a wide range including, for example, the diversity of programs in the humanities, social sciences, and applied sciences, and the environment in which graduate work is conducted; the nature and function of the Faculty of Graduate Studies and Research; and the sources of funding for graduate students and for staff research. The study is nearing completion, and the Committee is optimistic that the body of information obtained from the review and the identification of key issues and concerns will assist the academic community in maintaining, and perhaps enhancing, its stature in this important area.

On the recommendation of the Academic Concerns Committee, the Board approved the individual Faculty proposals for admission and/or second year quotas for 1982-83, together with one additional submission for 1983-84. The proposals were in the main a continuation of existing

quotas and, in some cases, a provision for modest expansion. They were presented in the context of the Academic Development Committee *Report on Annual Review of Quotas*, which was the second formal review of quotas under procedures established by GFC and the Board in 1980.

Two administration proposals for the use of endowment funds were also endorsed:

—The Mactaggart Fellowship Fund, which will be funded by a commitment against the revenues made possible by a donation of land from Mr. S. A. Mactaggart and a government matching grant, and which will provide for the appointment of Post-Doctoral Fellows in the humanities and social sciences (along the lines of funding which is already available to the Sciences via NSERC Fellowships and the Heritage Medical Scholarships), and

—a Fund for the Support of International Development Activities, which is a new category for expenditure of the 1980 Board-approved University of Alberta Endowment Fund for the Future.

Support was also forthcoming from the Committee for a GFC proposal that *The Universities Act* be amended so as to make formal provision for Department Chairmen, Chairmen's Councils, and Department Councils. This recommendation was adopted by the Board as University policy, and was sent forward to the Minister of Advanced Education and Manpower.

In addition, The University of Alberta renewed its Affiliation Agreements with three junior colleges: Camrose Lutheran, Canadian Union, and Concordia. The renewals were in the light of reviews and reports by appropriate Evaluation Committees, the individual committees having as their co-chairmen a representative of the University and the respective College.

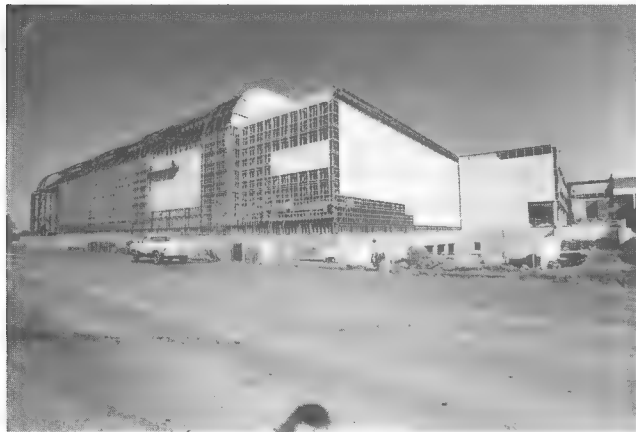
Student affairs were also on the agenda, the Academic Concerns Committee having received for information and transmission to the Board the GFC-approved revision of the Student Disciplinary Procedures and the Code of Student Behaviour, and having also supported the GFC recommendation that The University of Alberta acknowledge the Interfraternity Council, the Panhellenic Council, and their individual member-chapters as organizations that are independent of the University (in effect, formal recognition of the supervisory powers that are already exercised by these Councils).

D. Richardson, Chairman.

Report of the Board Building Committee

The Building Committee of the Board of Governors is charged with the responsibility for reviewing and making policy recommendations to the Board on matters affecting the acquisition, management, control and disposition of University buildings, lands and equipment and also for making recommendations and reviewing policies affecting vehicular and pedestrian traffic on University property.

On the recommendation of the Building Committee the Board had submitted a Capital Grant Request to Government for 1981-82 in the amount of \$45,250,507. The Government's response was in the amount of \$41,467,098. of which \$16,000,000 represented the 1981-82 cash flow requirements arising from construction for the 1983 World University Games.



A major location for the World University Games, 1 to 11 July 1983, is the Universiade Pavilion under construction to the south of the Physical Education and Recreation Centre.

During the reporting period construction was begun on the University of Alberta Fieldhouse (the Universiade Pavilion to be completed in time for the 1983 World University Games) and on new student housing in the east campus area. In this connection the Building Committee recommended that the Board approve the transfer of funds from reserves to augment the sum budgeted for renovation of five of the older homes in the East Campus Housing Precinct. Approval was also given for the siting and construction of a University Tennis Centre at Michener Park. These facilities, being part of the requirements for the World University Games, will not only enhance the teaching programs in the Faculty of Physical Education and Recreation, but will also be available as a recreational resource to students and the general community alike.

By the end of the reporting period, siting and planning work for a third car parkade had also been approved. Construction of this new facility near the core of the campus will assist in replenishing some of the losses of parking space to new and planned construction. When completed, by mid 1983, the

structure will accommodate some five hundred vehicles as well as serve as the new home for Campus Security and Parking Services. The planning process began during the year for one other structure, namely a Purchasing and Central Stores (Materials Management) building. The demand for increased space for computing facilities led the Building Committee to give its approval for finding acceptable means for making more space available for Computing Services. In consequence, some service departments will be re-located to the planned Materials Management while Computing Services expands into the space made vacant in the General Services Building.

The Edmonton Research Station, known as the Parkland Farm in former years, was also the subject of considerable activity during the year. The Board, on the recommendation of its Building Committee, approved of the appointment of a Prime Consultant in connection with the relocation and upgrading of facilities for the Department of Plant Science and also approved a long-range development plan for the Edmonton Research Station. By the end of the reporting period siting had been approved for new Plant Science facilities, and work was proceeding on construction drawings.

In the past year the Building Committee approved or recommended Board approval for the awarding of contracts totalling \$30,831,484 for such projects as the Tennis Centre, the Fieldhouse and Fieldhouse seating, East Campus Housing and the extension of the campus-wide service corridor system to the Lister Hall residence complex as well as for utilities being constructed in connection with the new student housing.

On the University's behalf the Committee accepted the donation of the church and rectory buildings of the parish of St. Thomas d'Aquin, situated on land at Faculté Saint-Jean. The properties were subsequently allocated for use by a non-profit French-language children's theatrical group.

During the reporting period construction was begun on the University of Alberta Fieldhouse (the Universiade Pavilion to recognize the contribution of the following distinguished individuals:

Roland Bonvalet

Roland Bonvalet Memorial
Common Room

Arts Building

Bruce Peel

Bruce Peel Special
Collections Room

Cameron Library

John W. Scott

John Scott Library

Mackenzie Health
Sciences Centre

Ernest R. Shedden

Shedden Cottage

Lac Ste.-Anne Research Station

J. Macgregor Smith

J. Macgregor Smith
Laboratory

Agriculture-Forestry Centre

The Building Committee continued to exercise tight financial control over capital construction and renovation projects through its approval procedures and by monitoring capital expenditures through quarterly reports. As a result of a change in the Committee's terms of reference capital projects over \$100,000 require B.B.C. approval. During the year the Committee approved, or recommended for Board approval, capital expenditures totalling \$19,713,690 of which more than half was required to fund new student housing.

In the coming year it is expected that the Building Committee will continue to devote attention to planning and funding for such facilities as a new building for the Faculty of

Business, new Plant Science facilities with other developments at the University farm, the new Purchasing and Stores building and for major expansion of the University's library system. Other long-term projects will also be among matters for the Committee's consideration in the forthcoming year. Most notable of these will be a Paleontological Collections Facility and a Performing Arts building. The former is intended to house the very large collection of fossils and mineral samples donated to the University some years ago by a number of oil companies.

M. R. Berretti, Chairman

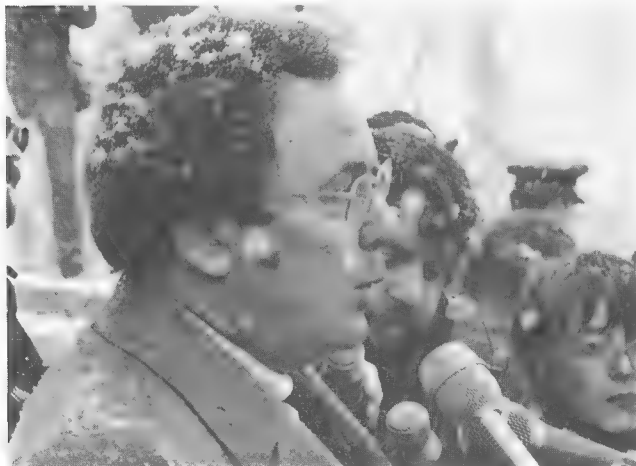
The Garneau Student Housing in the eastern area of campus, to be opened to students in January 1983, preserves the charm and vitality of one of Edmonton's long-established communities.



Report of the Finance Committee

The Board Finance Committee's primary responsibility centres on the review and recommendation of policies governing the University's financial affairs. The scope of financial operations is vast, and for convenience they are divided into four broad categories: Operating Budget, Investments, Audit, and Miscellaneous (items not relating directly to the other three categories).

Prior to the commencement of the University's fiscal year—1 April 1981 to 31 March 1982—the Finance Committee considered and recommended Board approval of the University's 1981-82 Preliminary Operating Budget providing for total net expenditures of \$172,560,000. A related recommendation for an increase of 15 percent in tuition fees for all full-time students, effective 1 September 1981, was subsequently denied by the Minister of Advanced Education and Manpower.



The Hon. J.D. Horsman, Minister of Advanced Education and Manpower, addressing concerned students at a rally held in the grounds of the Legislature in February 1982.

Operating Budget items placed before the Finance Committee during the fiscal year included the following:

1. A decision to undertake a major fund-raising campaign by the University to coincide with its 75th Anniversary in 1982-83, with an objective of \$35 million (to be matched by the Provincial Government). In addition, authorization was given to retain the services of the necessary staff to design and implement the campaign, and to establish a permanent Fund Development Office at the University. (Because of the increasingly unfavourable economic climate, the corporate fund raising portion of the Campaign was later deferred).
2. Projected five-year operating and capital budgets relating to the following new program proposals, which were submitted to the Provincial Government for funding:
 - (a) M.Sc. Program in Speech Pathology (Rehabilitation

Medicine)

- (b) Ph.D. Program in Business Management
- (c) Expansion of the Local Government Studies Program (Extension)
- (d) Expansion of the Quota Programs in Occupational Therapy, Physical Therapy, and Speech Pathology and Audiology (Rehabilitation Medicine)
- (e) Accelerated Program in Occupational Therapy (Rehabilitation Medicine)
- (f) Graduate Service Program in Applied Statistics (Science: Statistics and Applied Probability)
- (g) B.Sc. Special Degree in Computer-Assisted Cartography (Computing Science; Geography)

3. The conclusion of an Agreement between the Governors of The University of Alberta and the Students' Union of The University of Alberta setting out the relationship and obligations of the two parties with respect to the University's role as the Students' Union's "banker." The Agreement was drafted as a result of the significant overdraft situation experienced by the Students' Union during the previous two years. The agreement, called the Ledger Account Agreement, provides for the continued financial autonomy of the Students' Union, subject to ongoing monitoring by the University, and approval by the University of any monthly negative balances in the Students' Union's operating account. Any deviation by the Students' Union beyond an established maximum also requires University approval. The Agreement also allows the University to place the Students' Union into receivership should the latter fail to meet its commitments under the Agreement.

4. A change in the status and funding of the University Athletic Board (UAB), such that future increases in the UAB fee will be linked directly to increases in tuition fees and that UAB fee revenue will be merged into general revenues, effective with the 1982-83 fiscal year.

5. An increase in the value of the University of Alberta Dissertation Fellowship, from \$6,500 per year to \$8,500 per year, effective with the 1981-82 academic year.

6. Continuation of the International Student Bursary Program, and provision of a \$30,000 grant for 1981-82.

7. The provision of \$4,500 to the Golden Key Emergency Fund (for International Students) for the 1981-82 academic year.

8. The awarding of grants totalling \$57,574 to various Students' Union organizations, including CJSR (\$9,000), *The Gateway* (\$7,000), the Housing Registry (\$12,928), Student Help (\$4,720), Students' Orientation Seminars (formerly Freshman Orientation Seminars) (\$10,926), and the Art

Gallery (\$13,000). Other grants were awarded to Edmonton Hire A Student (\$2,000) and the University of Alberta Mixed Chorus (\$1,000).

The Finance Committee also discussed and endorsed the 1982-83 Preliminary Operating Budget providing for revenues of \$202,679,000 and Net Expenditures totalling \$202,949,000, and a tuition fee increase of 25 percent for all full-time students (subsequently reduced to 20 percent), effective 1 September 1982.

Within the Investment category, the Finance Committee reviewed on a quarterly basis the investment performance of the portfolios of the Killam Funds, the Consolidated Investment Pool, the Endowment Pool, and the new Endowment Fund for the Future. The Committee also confirmed the appointment (in December 1981) of the Vancouver firm of M.K. Wong and Associates as investment counsellor for the equity-bond portion of the Endowment Fund for the Future. (Investment Counsellor for the three other portfolios is Jarislowsky Fraser and Co. of Montreal.)

As well, the Finance Committee reviewed the University's short-term investment performance at each regular meeting.

Of particular significance to the Finance Committee during 1981-82 was the incorporation of the Alberta Microelectronic Development and Applications Centre as a not-for-profit company owned by—but wholly separate from—the University. The Centre is being funded during the initial five-year period of its existence by a \$1,000,000 Federal Government grant.

As has been its practice in recent years, the Board Finance Committee expressed via the Board of Governors its ongoing concern about the financial resources available to the University because of the effects of inflation and increasing enrolments. At the same time, the Committee commended the Provincial Government for the establishment of the 1980s Advanced Education Endowment Fund, which will provide matching grants to Alberta universities in respect of endowments and capital donations.

D.M. Ritchie, Chairman



General Motors of Canada supports acoustical research conducted by Dr. Anthony Craggs and his associates in the Department of Mechanical Engineering. From left to right: M.M. Kamal (General Motors), S. Lorimer and J. Hildebrandt (Mechanical Engineering), M.L. Achmatowicz (General Motors), A. Craggs and Dean Peter F. Adams (Engineering).

Report of the Special Projects Committee

The Board Special Projects Committee was established in January 1982 to replace the former Board Committee on Community Relations. The Committee is responsible to the Board of Governors to explore on behalf of the Board, or to recommend to the Board, on matters of concern which do not relate naturally to the other three Board standing committees.

The following are special projects which highlight the work of the Committee during the reporting period:

The 75th Anniversary of The University of Alberta (1908-1983)

The Committee endorsed the program of events, which during the interval 1 July 1982 to 30 June, 1983 will mark the 75th Anniversary Year of The University of Alberta. The anniversary year will be marked by international symposia, exhibitions, displays, special publications and community events — all emphasizing the seventy-fifth anniversary theme "Scholarship and Innovation, What We Do Affects You."

Community Relations

The Special Projects Committee receives progress reports from the University's "community relations" departments as a means of coordinating activities in this important area of University affairs. The Committee recommended Board approval of the preparation of a University of Alberta newspaper supplement that was scheduled for release in the fall of 1982.

It is a major task for the University to maintain contact with its over 80,000 alumni. Susan Peirce, newly appointed Director of Alumni Affairs, intends to enhance this communication through *New Trail*, the alumni magazine.

The University Act—Amendments

On 20 November 1981, the Provincial Legislature enacted Bill 51, *The Universities Amendment Act*. In compliance with the new legislation, the Special Projects Committee, after consultation with the Academic Staff Association, recommended Board approval of a formal designation of "academic staff" for the purposes of the amended *Universities Act*. On the recommendation of the Special Projects Committee the Board also endorsed the "Principles of Consultation" that related to the designation of academic staff.

Fund Development

In 1980, the announcement of the Province of Alberta's 1980s Advanced Education Endowment Fund provided a strong incentive for the University to increase the proportion of funding that it receives from private sources. Under the provisions of this new Fund, the Government will provide up to \$80 million in matching grants during the 1980s to Alberta public post-secondary institutions.

During the reporting period, the Special Projects Committee monitored the University's Fund Development Program in preparation for a major appeal campaign.

Pediatric Research Institute

The Special Projects Committee recommended Board endorsement of the concept of a Pediatric Research Institute at The University of Alberta. The Committee further recommended that a seminar should be arranged to explore the implications of a research institute and the related concept of a Children's Hospital for Edmonton.

Long-Service Awards

The Special Projects Committee arranges for a special Board of Governors function to honor individuals who have been on University staff for 25 years. In 1982, the following staff members were so recognized:

25 Years

Ronald Burwash, Geology
Henry Charlesworth, Geology
Walter Cottle, Physical Education
Robert Crawford, Chemistry
Ronald Falconer, Office of the Comptroller
Theodore Germaine, Surgical Medical Research Institute
Raymond Kelly, Athletic Services
John Lerbekmo, Geology
Irene Maj, University Professorship
Lynn Morgan, Registrar's Office
Bernice Prusak, Office of the Comptroller
Lillian Romaniuk, Registrar's Office
Helge Welling, Plant Science

30 Years

Alan F. Affleck, Recreation Administration
R. George Baldwin, Vice-President (Academic)
Sigmund Holtz, Heating Plant
Eileen Kadis, Provincial Laboratory (Edmonton)
James Liddell, Heating Plant
Nicholaas Muntjewerff, Genetics
Julia Oko, Provincial Laboratory (Calgary)
Bruce Peel, Librarian to the University

35 Years

Cecil Beamont, Provincial Laboratory (Calgary)
Margaret Brennan, Genetics
Walter E. Harris, Chemistry
Lorene L. Kennedy, Botany
Shirley Meyer, Library Administration
Paul Padleki, Physical Plant Operating
Charles R. Stelck, Geology
Barney T. Stephanson, Agricultural Engineering

J. E. Bentley, Chairman

The Governors of The University of Alberta, 1981-82

Chairman J. L. Schlosser
Statutory members J. B. Forest, Chancellor
M. Horowitz, President
Alumni Association D. Usher
B. Adler
The Senate D. Richardson
Academic staff S. Hunka
R. T. Coutts
Students' Union P. Soper, President
(succeeded by R. Greenhill)
K. Farkas (succeeded by B. Bechtel)

Graduate Students' Association N. Shanks, President
(succeeded by R. Ascah)
Public appointees J. E. Bentley
J. E. Barry
M. R. Berretti
G. Conway
G. Davidge
J. Kennedy
E. Mertens
D. M. Ritchie



The Governors and members of the senior administration in Spring 1982. From left to right (standing): D. Usher, Vice-President (Academic) R.G. Baldwin, Vice-President (Research) J.G. Kaplan, G. Conway, Vice-President (Facilities and Services) R.E. Phillips, N. Shanks, B. Adler, P. Soper, J. Kennedy, M.R. Berretti, R.T. Coutts, E. Mertens, S. Hunka, Vice-President (Finance and Administration)

L.C. Leitch, M. Mazeppa (Secretary), B.J. Silzer (Administrative Director). From left to right (sitting): D. Richardson, K. Farkas, President M. Horowitz, Chairman J.L. Schlosser, Chancellor J.B. Forest, J.E. Bentley, and D.M. Ritchie. Missing from the photograph are J.E. Barry and G. Davidge.

Committee Membership

as at 30 June 1982

Academic Concerns Committee

Dr. D. Richardson (Chairman)
Mr. J. L. Schlosser (ex officio)
Dr. M. Horowitz (ex officio)
Dr. B. Adler
Mr. R. Ascah
Mrs. J. Bentley
Dr. R. T. Coutts
Mr. D. Usher

In Regular Attendance (Non-voting)

Dr. R. G. Baldwin, Vice-President (Academic)
Ms. F. Watters, Executive Assistant to
Vice-President (Academic), Secretary
Mr. B. J. Silzer, Administrative Director

Building Committee

Mr. M. R. Berretti (Chairman)
Mr. J. L. Schlosser (ex officio)
Dr. M. Horowitz (ex officio)
Mr. J. E. Barry
Mr. B. Bechtel
Mr. G. Conway
Mr. J. Kennedy

In Regular Attendance (Non-voting)

Mr. R. E. Phillips, Vice-President (Facilities and Services)
Dr. P. S. Taitt, Executive Assistant to Vice-President
(Facilities and Services), Secretary
Mr. B. J. Silzer, Administrative Director

Executive Committee

Mr. J. L. Schlosser (Chairman)
Dr. M. Horowitz (ex officio)
Mrs. J. Forest (ex officio)
Mrs. J. Bentley (Chairman) Special Projects Committee
Mr. M. R. Berretti (Chairman) Building Committee
Dr. D. Richardson (Chairman) Academic Concerns Committee
Mr. D. M. Ritchie (Chairman) Finance Committee

In Regular Attendance (Non-voting)

Mr. B. J. Silzer, Administrative Director

Finance Committee

Mr. D. M. Ritchie (Chairman)
Mr. J. L. Schlosser (ex officio)
Dr. M. Horowitz (ex officio)
Mr. G. Davidge
Mr. R. Greenhill
Dr. S. Hunka
■

In Regular Attendance (Non-voting)

Prof. L. C. Leitch, Vice-President (Finance and Administration)
Mr. D. C. Norwood, Assistant to Vice-President (Finance and
Administration), Secretary
Mr. B. J. Silzer, Administrative Director

Special Projects Committee

Mrs. J. Bentley (Chairman)
Mr. J. L. Schlosser (ex officio)
Dr. M. Horowitz (ex officio)
Dr. B. Adler
Dr. R. T. Coutts
Mrs. J. Forest
Mr. D. Usher

In Regular Attendance (Non-voting)

Prof. L. C. Leitch, Vice-President (Finance and Administration)
Mr. B. J. Silzer, Administrative Director, Secretary

Audit Committee

(Sub-committee of Finance Committee)

Mr. D. M. Ritchie (Chairman)
Mr. G. Davidge

In Regular Attendance (Non-voting)

Prof. L. C. Leitch, Vice-President (Finance and Administration)
Mr. W. R. Mailo, Director, Internal Audit (Secretary)
Mr. A. S. Knowler, Comptroller
Mr. R. J. Leonard, Associate Comptroller

Negotiating Policy Committee

Mr. J. L. Schlosser (Chairman)
Dr. M. Horowitz
Mr. J. E. Barry
Mrs. J. Bentley
Mr. G. Conway
Mr. D. M. Ritchie
Mr. J. Kennedy
■

Vice-President R. G. Baldwin

Vice-President L. C. Leitch

NASA Negotiating Team

Mr. J. E. Barry
Mrs. J. Bentley
Vice-President L. C. Leitch
Consultant: Mr. J. B. Caunt (Director, Personnel Services
and Staff Relations)

AAS:UA Negotiating Team

Mr. J. Kennedy
Mr. D. M. Ritchie
Vice-President R. G. Baldwin
Consultants: Vice-President L. C. Leitch,
Associate Vice-President (Academic Administration) B. H. McDonald

GSA Negotiating Team

Mr. G. Conway
■
Vice-President L. C. Leitch
Consultant: Vice-President R. G. Baldwin

* indicates a vacancy

Balance sheet

as at 31 March 1982

Comparative figures are given as at 31 March 1981
(all figures in thousands of dollars)

Assets			Liabilities		
<i>Operating Funds</i>			<i>Operating Funds</i>		
	1982	1981		1982	1981
Current			Current		
Cash	\$ 194	\$ 107	Bank and Treasury Branch indebtedness	\$ 6,901	\$ 6,934
Short-term deposits	20,712	22,694	Accounts payable and accrued liabilities	16,047	11,766
Accounts receivable (Note 3)	4,882	3,277	Holdbacks payable	1,577	461
Accrued interest	387	933	Accrued interest	227	231
Inventories	4,580	3,324	Deferred revenue	842	720
Prepaid expenses	319	382	Refundable deposits	230	182
Due from (to) trust	2,345	(577)	<i>Total current liabilities</i>	25,824	20,294
Due from (to) capital	2,447	(1,045)	Reserves, Statement D	6,474	5,326
<i>Total current assets</i>	35,866	29,095	Operating surplus, Statement C	3,675	3,596
Other				35,973	29,216
Livestock	107	121			
	<u>35,973</u>	<u>29,216</u>			
<i>Capital Funds</i>			<i>Capital Funds</i>		
Current			Due to (from) operating	2,447	(1,045)
Short-term deposits	25,829	13,723	Long-term debt (Note 6)	24,904	24,334
Other			Capital provided by the Province of Alberta,		
Loan receivable, Students' Union (Note 6(i))	2,769	2,858	Statement E	412,114	364,129
Fixed			Capital provided by others, Statement F	114,890	99,945
Land, buildings and plant	357,008	322,981		554,355	487,363
Furnishings and equipment	168,749	147,801			
	<u>554,355</u>	<u>487,363</u>			
<i>Trust Funds</i>			<i>Trust Funds</i>		
Current			Due to (from) operating	2,345	(577)
Cash	476	362	Due to (from) brokers	264	(20)
Short-term deposits	47,626	39,365	Trusts, Statement G	78,115	67,093
Accounts receivable (Note 3)	7,621	5,037		80,724	66,496
Accrued interest	858	884			
<i>Total current assets</i>	56,581	45,648			
Investments (Note 4)	24,143	20,848			
	<u>80,724</u>	<u>66,496</u>			
<i>Total</i>	<u>\$ 671,052</u>	<u>\$ 583,075</u>	<i>Total</i>	<u>\$ 671,052</u>	<u>\$ 583,075</u>

Comparative statement of

operating expenditures

<i>Items of expenditures</i>	1981-82	1980-81	1979-80	1978-79	1977-78
Faculties	\$ 125,361,936	\$ 110,425,881	\$ 99,898,230	\$ 91,947,323	\$ 85,037,454
Indirect instructional	1,461,801	1,333,022	1,224,464	875,411	942,318
Plant maintenance	22,602,655	18,558,472	16,309,190	15,237,870	15,392,906
Library	11,899,929	10,978,595	9,232,877	8,267,208	7,859,099
Student services	912,828	853,933	719,106	688,419	598,316
Administration	14,029,598	11,693,688	10,373,753	9,501,419	8,980,343
Public service	2,327,089	1,841,360	1,691,892	1,473,651	1,435,657
Ancillary departments	(11,643)	127,642	85,625	794,543	(349,492)
	<u>\$ 178,584,193</u>	<u>\$ 155,812,593</u>	<u>\$ 139,535,137</u>	<u>\$ 128,785,844</u>	<u>\$ 119,896,644</u>

Full-time enrolment by level of program and by Faculty

Winter sessions, 1980-81 and 1981-82

Faculty	Undergraduate Students		Graduate Students		Total	
	1981-82	1980-81	1981-82	1980-81	1981-82	1980-81
Agriculture and Forestry	595	647	147	135	742	782
Arts	3,092	2,868	367	400	3,459	3,268
Business Administration and Commerce	1,492	1,291	103	99	1,595	1,390
Dental Hygiene	84	79	-	-	84	79
Dentistry	202	197	5	6	207	203
Education	3,009	2,914	452	402	3,461	3,316
Engineering	1,821	1,712	218	188	2,039	1,900
Home Economics	323	344	24	28	347	372
Interdisciplinary Studies			14	16	14	16
Law	527	523	6	4	533	527
Library Science			61	62	61	62
Medical Laboratory Science	89	88			89	88
Medicine	844	798	117	110	961	908
Nursing	418	368	12	8	430	376
Pharmacy and Pharmaceutical Science	377	391	22	20	399	411
Physical Education and Recreation	566	560	93	83	659	643
Rehabilitation Medicine	328	293	1	3	329	296
Saint-Jean	259	242			259	242
Science	3,422	2,950	473	444	3,895	3,394
Other ^(a)			8	2	8	(b)
Total	17,448	16,265	2,123	2,008	19,571	18,273

(a) Visiting and special graduate students. The Faculty of Graduate Studies does not assign these students a specialization.

(b) These students were assigned a specialization by the Office of the Registrar in 1980-81

Library data

for the year ending 31 March 1982

The Collection	1981-82	1980-81	1979-80
Volumes in collection at end of year (a)	2,214,513	2,133,464	2,047,997
Volumes acquired during the year (a)	86,621	85,467	90,715
Volumes withdrawn during the year (a)	5,572	2,377	4,169
Periodical and newspaper titles	14,594	14,459	14,330
Value of acquisitions during year:			
Books	\$1,959,847	\$2,191,115	\$1,707,848
Periodicals	1,363,524	1,153,869	953,138
Binding	173,356	185,336	165,830
Volumes Circulated during the year (b)	976,625	961,782	936,636
Number of Staff (c)			
Professional staff	79.5	79.5	79.5
Support staff	285.4	285.4	275.5
Casual (d)	21.6(e)	45.7(e)	44.0(e)

(a) Volume refers to accessioned physical volumes, books or bound periodicals.

(b) Figures supplied are for all items circulated through the manual and automated circulation systems.

(c) Approved positions.

(d) Full-time equivalent.

(e) Includes funding from full-time vacancies converted to full-time equivalent.

Student aid provided by the University

Amounts paid to students through the University operating budget

	1981-82	1980-81
As grants, scholarships, bursaries, remission of fees, etc	\$ 504,586	\$ 437,451
<i>For services performed:</i>		
To graduate teaching assistants	\$ 4,358,118	\$ 3,671,858
To graduate research or graduate service assistants	2,190,811	1,998,760
Other	1,001,117	968,100
	7,550,046	6,638,718
<i>Total financial assistance</i>	<u>\$ 8,054,632</u>	<u>\$ 7,076,169</u>

In addition to the amounts shown above, other scholarships, bursaries, grants, prizes, and awards are provided from special trust funds.

Physical facilities

<i>Amount of Building Space</i>	1981-82	1980-81	<i>University Acreage</i>	1981-82	1980-81
<i>Assignable Space:</i>			<i>Land owned in Edmonton</i>		
In square metres			Main Campus	213.09	213.09
Non-residential			Garneau addition	29.19	213.51
Owned	358,133.4	357,151.5	Michener Park	41.88	41.88
Rented	3,237.3	3,237.3	Edmonton Research Station	592.40	592.40
Total non-residential	361,370.7	360,388.8	Faculté Saint-Jean	15.36	15.36
Residential and other	117,897.9	119,317.5			
<i>Total assignable square metres</i>	<u>479,268.6</u>	<u>479,706.3</u>	<i>Land outside Edmonton (used mainly for agricultural research)</i>		
			Owned by the University	574.73	574.73
In square metres per full-time daytime student			Leased by the University	8,308.42	8,236.54
Non-residential			<i>Total acreage</i>	<u>9,775.07</u>	<u>9,887.51</u>
Owned	18.3	19.6			
Rented	0.2	0.2			
Total non-residential	18.5	19.8			
Residential and other	6.0	6.5			
<i>Total assignable square metres per student</i>	<u>24.5</u>	<u>26.3</u>			
<i>Gross Space</i>					
In square metres					
Non-residential					
Owned	607,963.5	604,581.9			
Rented	3,301.0	3,301.0			
Total non-residential	611,264.5	607,882.9			
Residential and other	206,257.3	188,471.4			
Parkades and Service Corridors*	80,560.6	—			
<i>Total gross square metres</i>	<u>898,082.4</u>	<u>796,354.3</u>			
In square metres per full-time daytime student					
Non-residential					
Owned	31.1	33.2			
Rented	0.2	0.2			
Total non-residential	31.3	33.4			
Residential and other	10.5	10.3			
Parkades and Service Corridors*	4.1	—			
<i>Total gross square metres per student</i>	<u>45.9</u>	<u>43.7</u>			

*No Assignable space equivalent

Statistical summary

	<i>1977-78</i>	<i>1978-79</i>	<i>1979-80</i>	<i>1980-81</i>	<i>1981-82</i>
Full-Time Intramural Students	19,464	18,741	18,075	18,228	19,535
Percent Annual Change	-2.6	-3.7	-3.5	0.8	7.2
Percent First Year	25.1	24.0	24.1	24.7	26.8
Percent Graduate Students	10.3	10.6	10.5	10.8	10.7
Percent Female	44.1	45.4	46.5	46.6	47.5
Percent Non-Canadian Citizens	11.4	11.1	10.7	10.6	11.1
Percent from outside Alberta	8.6	8.4	8.3	8.3	7.8
Part-Time Intramural Students	3,326	3,088	3,041	3,155	3,277
Spring Session Students	3,801	3,819	3,968	3,701	3,755
Summer Session Students	3,415	3,067	3,060	2,736	2,905
Diplomas Granted	223	220	232	206	211
Bachelor's Degrees Granted	4,242	4,475	4,489	4,228	4,046
Master's Degrees Granted	465	484	611	457	490
Ph.D. Degrees Granted	150	162	143	158	156
Average Lecture Section Size	31.7	30.4	29.8	30.4	31.3
FTE Academic Staff	2,173	2,148	2,197	2,278	2,351
FTE Non-Academic Staff	3,458	3,400	3,296	3,985	4,084
Operating Revenue (<i>thousands of dollars</i>)	119,989	128,566	139,697	155,089	179,902
Operating Expenditures (<i>thousands of dollars</i>)	119,896	128,786	139,535	155,812	178,585
Operating Expenditure per Full-Time Student	6,160	6,872	7,720	8,548	9,141
Total Faculty Space (<i>square metres</i>)	255,195	255,271	270,871	270,961	282,851
Total University Space (<i>square metres</i>)	363,421	423,000	454,135	455,506	469,796

Produced by Office of Community Relations